



STIC Search Report

EIC 3600

STIC Database Tracking Number: 155052

TO: Robert Rhode
Location: 5C21
Art Unit : 3625
Thursday, June 02, 2005

Case Serial Number: 09/745669

From: Sylvia Keys
Location: EIC 3600
Knox 4B68
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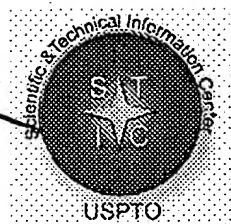
Search Notes

Dear Examiner Rhode,

Please read through the results.

If you have any questions, please do not hesitate to contact me.

Sylvia



2022

STIC EIC 3600 Search Request Form

101

153042

Today's Date: 5/28/05

10/2/06

What date would you like to use to limit the search?

Priority Date: 12/21/2000 Other:

Name R. RHODEAU 3625 Examiner # 79770Room # 5C21 Phone 2-6761Serial # 09/745,669

Format for Search Results (Circle One):

PAPER DISK EMAIL

Where have you searched so far?

USP DWPI EPO JPO ACM IBM TDB

IEEE INSPEC SPI Other _____

Is this a "Fast & Focused" Search Request? (Circle One) YES ☒ NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC3600 and on the EIC3600 NPL Web Page at <http://ptoweb/patents/stic/stic-tc3600.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

searching for an apparatus comprising
- a hand held device (PDA, Palm Pilot),
which allows writing with a Pen like
device and
- incorporates/integrates scanning and
storage, which includes
- a scanning element for converting
iPC to computer read
- and removable memory (disquette, RAM,
memory stick, etc.)

STIC Searcher _____ Phone _____

Date picked up _____ Date Completed _____





STIC Search Results Feedback Form

EIC 3600

Questions about the scope or the results of the search? Contact *the EIC searcher* or contact:

Karen Lehman, EIC 3600 Team Leader
571.272.3496 Knox suite 4B68

Voluntary Results Feedback Form

➤ I am an examiner in Workgroup: Example: 3620 (optional)

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to EIC3600 Knox suite 4B68



File 344:Chinese Patents Abs Aug 1985-2005/May
(c) 2005 European Patent Office
File 347:JAPIO Nov 1976-2005/Jan(Updated 050506)
(c) 2005 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200534
(c) 2005 Thomson Derwent
File 348:EUROPEAN PATENTS 1978-2005/May W03
(c) 2005 European Patent Office
File 349:PCT FULLTEXT 1979-2005/UB=20050602,UT=20050526
(c) 2005 WIPO/Univentio
File 331:Derwent WPI First View UD=200533
(c) 2005 Thomson Derwent
File 371:French Patents 1961-2002/BOPI 200209
(c) 2002 INPI. All rts. reserv.

Set	Items	Description
S1	137927	(HANDHELD OR HAND()HELD OR PORTABLE? OR PDA OR PALM()PILOT? OR PALM) (5N) (DEVICE? OR APPARATUS OR APPLIANC? OR COMPONENT? OR EQUIPMENT)
S2	5335	(SCAN OR SCANS OR SCANNING) (5N) (BAR OR PRODUCT) () (CODE OR - CODES OR CODING?)
S3	1417089	REMOV?(5N) (MEMORY OR RAM OR DISC OR DISKETTE?) OR STORAGE
S4	1209	S1 (5N) (WRITE OR WRITES OR WRITING OR PEN OR PENS)
S5	2314	(CONVERT? OR CONVERS?) (5N) (UPC OR UNIVERSAL()PRODUCT()CODE? ? OR COMPUTER()READABLE? OR (BAR OR PRODUCT) () (CODE OR CODES OR CODING?))
S6	95	AU=(SIEGEL, B? OR SIEGEL B? OR MARCHESELLO, T? OR MARCHESE- LLO T?)
S7	1010	S1 AND S2
S8	729	S7 AND S3
S9	82	S8 AND S5
S10	51	S9 AND (WRITE OR WRITES OR WRITING OR PEN OR PENS)
S11	12	S10 AND IC=G06F
S12	4	S6 AND S1
S13	396550	(HANDHELD OR HAND()HELD OR PORTABLE? OR PDA OR PALM()PILOT? OR PALM)
S14	1840	S13 AND S2
S15	1149	S14 AND S3
S16	123	S15 AND S5
S17	69	S16 AND (WRITE OR WRITES OR WRITING OR PEN OR PENS)
S18	57	S17 NOT S11
S19	57	S18 NOT S12
S20	6	S19 AND IC=G06F

11/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01313900

Portable electronic terminal and data processing system
Tragbares elektronisches Terminal und Datenverarbeitungssystem
Terminal electronique et portable et systeme de traitement de donnees
PATENT ASSIGNEE:

SYMBOL TECHNOLOGIES, INC., (417665), One Symbol Plaza, Holtsville, New York 11742-1300, (US), (Applicant designated States: all)

INVENTOR:

Nambudri, Narayan, 37 Indian Trace, Kings Park, NY 11754; (US)
Roslak, Thomas K., 34 Andy's Lane, Eastport, NY 11941, (US)
Swartz, Jerome, 199 Old Field Road, Old Field, NY 11733, (US)

LEGAL REPRESENTATIVE:

Wagner, Karl H., Dipl.-Ing. (12561), WAGNER & GEYER Patentanwalte
Gewürzmühlstrasse 5, 80538 München, (DE)

PATENT (CC, No, Kind, Date): EP 1124193 A1 010816 (Basic)

APPLICATION (CC, No, Date): EP 2000102874 000211;

DESIGNATED STATES: DE; FR; GB; IT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-017/60

ABSTRACT WORD COUNT: 239

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200133	4899
SPEC A	(English)	200133	18678
Total word count - document A			23577
Total word count - document B			0
Total word count - documents A + B			23577

INTERNATIONAL PATENT CLASS: G06F-017/60

...SPECIFICATION method and apparatus for computer-added shopping. A consumer is provided with a hand-held **bar code** reader and can **scan** various items at home. The user can order from home over a modem, or can ...and then transferring the data associated with the bar codes to a host computer for **storage** in a shopping list database. The transferring step includes the sub-steps of transferring the...communication via optical character recognition, for example, using the so-called "Criaffiti Alphabet" of the **Palm** Computing **Palm Pilot Device**.

Portable terminal 40 can also include a speaker 88 for supplying audible messages to the user...

...way data interface 42 (and optional buttons 82, 84), as well as other herein-described **components**, to the well known **Palm - Pilot device** manufactured by **Palm** Computing.

Referring now to FIG. 6, kiosk cradle 24 includes kiosk portable terminal-receiving station...

...item 36 and item 36''corresponds to item 36'. Alternative portable terminal 40' is generally **pen** -shaped, and has an elongate **pen** -shaped housing 201 having an end 203 with an optically transparent passage 205 therethrough, The...8 inches and a length of about 5-6 inches to permit convenient carrying and **storage** by a user, for example, in a pocket or

purse like an ordinary **pen** , and can thus be configured for easy gripping by a user of the system. An example of such a **pen** is the "InfoPen" recently available from Symbol Technologies, Inc, FIGS. 8A and 8B are entirely...

...of transferring the data associated with the bar codes to a host computer 16 for **storage** in a shopping list database. The transferring step includes the sub-steps of transferring the...
...station 32; and then to the host computer. As described above with respect to the **apparatus** , the kiosk **portable** terminal-receiving station is part of the shopping establishment kiosk cradle 24 which is coupled...off data items listed on the hard copy shopping list 98 with a conventional ink **pen** as the items are picked up off the shelves 102 (see FIG. 4) of the...also be implemented from a home personal computer.
When using a portable terminal such as **pen** -type terminal 40', which may not have a display, a user can simply periodically re...

...lines 22, 38 can be public or private or a satellite system.

The user can **scan** the **bar codes** of shopping-related items 44 in home 12 all at one time, or as items...can print the hard copy of the order and check items off with an ink **pen** as they are scanned with portable terminal 40 and deposited in, for example, a shopping...

...block diagram of the hardware architecture for the portable terminal of the present invention. The **portable** terminal includes a **scanning device** 910 for reading **bar code** , a scanner decoder 920 coupled to the scanning device 910, a communications interface/memory board Symbol Technologies, Inc. The **scanning** device outputs Digital **Bar Code** Pattern (DBP) and a Start of Scan (SOS) signals to the scanner decoder 920. Further...

...by the decoder 920 to the communications interface 930.

Communications interface 930 is used to **convert** the decoded **bar code** data for further processing by a microprocessor included in the main processing board 940. Preferably...

...and related data.

Microprocessor 941, preferably a DragonBall MC68328 microprocessor, is provided for processing the **converted** decoded **bar code** data, executing the terminal operating system and terminal applications, e.g., personal organizer/calendar, Internet...

...PCMCIA or equivalent interface 953 included in the ASIC 933. In an alternative embodiment, the **portable device** is inserted into a sled (not shown) that mates to the synchronization port 943.

In...digitizer alignment test is used to test the tracking of a stylus or comparable pointing **device** on the **portable** terminal display screen. To run this test, the pointing device is contacted in various places...reducing component requirements. The combination of a housing including a touch sensitizing screen, a dedicated **writing** area with hand recognition and software buttons, hard buttons, and left/right bar code reading...is a two-way terminal data interface; and

said portable terminal further comprises an elongate **pen** -shaping housing having an end with an optically transparent passage therethrough, said memory and said...

...is a two-way terminal data interface; and

said portable terminal further comprises an elongate **pen** -shaping housing having an end with an optically transparent passage therethrough, said memory and said...is a two-way terminal data interface; and

said portable terminal further comprises an elongate **pen** -shaping

housing having an end with an optically transparent passage therethrough, said memory and said...

...portable terminal;

transferring the data associated with the bar codes to a host computer for **storage** in a shopping list database, said transferring step including the sub-steps of:

transferring the...interact with the display.

54. The system wherein said portable terminal further comprises an elongate **pen** -shaping housing having an end with an optically transparent passage therethrough, said memory and said...

...goods and services, said system having a portable bar code reader having a battery, a **bar code scanning** motor and a **bar code** scanner laser source, a method for minimizing the power consumption of said portable bar code...

...goods and services, said system having a portable bar code reader having a battery, a **bar code scanning** motor and a **bar code** scanner laser source, a method for preventing complete drainage of the battery during a **bar code scanning** action, said method comprising the steps of

activating said bar scanner motor;
sampling the battery...

...to a user when said battery voltage is below said battery voltage threshold.

60. A **portable hand - held terminal device** for use with a host computing device, comprising:

a **scanning** device for reading **bar code** data and for generating a corresponding digital bar code pattern;

a scanner decoder coupled to said **scanning** device for interpreting said digital **bar code** pattern and generating corresponding decoded bar code data

a communications interface coupled to said scanner decoder for **converting** said decoded **bar code** data for further processing, said communications interface comprising memory means for storing a terminal operating...

...programs and related data; and

a microprocessor coupled to said communications interface for processing said **converted** decoded **bar code** data, executing said terminal operating system and said terminal applications, and controlling the operation of...

...indicator.

63. The terminal device further comprising a device for wireless communications.

64. An improved **portable terminal device** comprising:

a housing having a generally elongated rectangular design which fits into user's hand...

...touch sensitive area within said touch sensitive display for receiving data inputs from a stylus **pen** ;

a plurality of buttons disposed on said front surface wherein each of said buttons is...

...code pattern and generating corresponding decoded bar code data

a communications interface coupled to said **bar code** decoder for **converting** said decoded **bar code** data for further processing, said

operation of...

...audio indicator, and for preferably further comprising a device for wireless communications.

18. An improved **portable terminal device** comprising:
a housing having a generally elongated rectangular design which fits into user's hand...

...touch sensitive area within said touch sensitive display for receiving data inputs from a stylus **pen** ;
a plurality of buttons disposed on said front surface wherein each of said buttons is...

...code pattern and generating corresponding decoded bar code data
a communications interface coupled to said **bar code** decoder for **converting** said decoded **bar code** data for further processing, said communications interface comprising memory means for storing a terminal operating...

...programs and related data; and
a microprocessor coupled to said communications interface for processing said **converted** decoded **bar code** data, executing said terminal operating system and said terminal applications, and controlling the operation of...

11/3,K/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01310337

Personal shopping system
Personliches Einkaufssystem
Systeme d'achat personnalise

PATENT ASSIGNEE:

SYMBOL TECHNOLOGIES, INC., (417665), One Symbol Plaza, Holtsville, New York 11742-1300, (US), (Applicant designated States: all)

INVENTOR:

Roslak, Thomas K., 34 Andy's Lane, Eastport, New York 11941, (US)
Petrovich, Adam, 415 Kittanning Pike, Pittsburgh, Pennsylvania 15215, (US)

Schwartz, Jerome, 199 Old Field Road, Old Field, New York 11733, (US)
Jenkins, Ian, 14 Blinker Light Road, Stony Brook, New York 11790, (US)
Pellaumail, John, Wellers Cottage Crazies Hill, Wargrave RG10 8LY, (GB)

LEGAL REPRESENTATIVE:

Wagner, Karl H., Dipl.-Ing. et al (12567), Wagner & Geyer, Patentanwälte, Gewürzmühlstrasse 5, 80538 München, (DE)

PATENT (CC, No, Kind, Date): EP 1120727 A2 010801 (Basic)
EP 1120727 A3 010808

APPLICATION (CC, No, Date): EP 2001101197 010124;

PRIORITY (CC, No, Date): US 490529 000125

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-017/60

ABSTRACT WORD COUNT: 116

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200131	2210
SPEC A	(English)	200131	26944
Total word count - document A			29154
Total word count - document B			0
Total word count - documents A + B			29154

INTERNATIONAL PATENT CLASS: G06F-017/60

...SPECIFICATION method and apparatus for computer-aided shopping. A consumer is provided with a hand-held **bar code** reader and can **scan** various items at home. The user can order from home over a modem, or can ...and then transferring the data associated with the bar codes to a host computer for **storage** in a shopping list database. The transferring step includes the sub-steps of transferring the...source upon activation of either of the bar code activation buttons.

Further, a bar code **storage** device is provided for communicating with a centralized controller over at least one communications network. The bar code **storage** device includes an egg-shaped housing, a bar code reader for reading bar codes from a hardcopy source, memory **storage** means coupled to the bar code reader for storing the bar codes, and communication means...

...one network. The bar code reader further includes a visible light indicator for indicating the **scanning** status of the **bar code** reader and at least one bar code activation button located on the top surface of ...communication via optical character recognition, for example, using the so-called "Graffiti Alphabet" of the **Palm Pilot** (TM) computing device .

Portable terminal 40 can also include a speaker 88 for supplying audible messages to the user...

...way data interface 42 (and optional buttons 82, 84), as well as other herein-described **components** , to the well known **Palm - Pilot device** manufactured by **Palm Computing**.

Referring now to FIG. 6, kiosk cradle 24 includes kiosk portable terminal-receiving station...item 36 and item 36'"corresponds to item 36'. Alternative portable terminal 40' is generally **pen** -shaped, and has an elongate **pen** -shaped housing 201 having an end 203 with an optically transparent passage 205 therethrough. The...

...8 inches and a length of about 5-6 inches to permit convenient carrying and **storage** by a user, for example, in a pocket or purse like an ordinary **pen** , and can thus be configured for easy gripping by a user of the system. An example of such a **pen** is the "CyberPen" available from Symbol Technologies, Inc.

FIG. 7B shows still another alternative embodiment...

...present invention. The portable terminal 700, which is a miniaturized optical scanner, includes an elongated **pen** -shaped housing 714 containing a laser module 710, micro-mirror 704 and a photodiode 706...

...704, which in turn reflects it through an optically transparent window 708 disposed on the **pen** -shaped housing 714. A reflected pattern representing the bar code 712 is then detected by the photodiode 706. An example of such a **pen** is the "AutoPen" available from Symbol Technologies, Inc.

FIGS. 8A, 8B and 8C are entirely...

decoded bar code data
 a communications interface coupled to said **bar code** decoder for
 converting said decoded **bar code** data for further processing,
 said communications interface comprising memory means for storing a
 terminal operating...
 ...programs and related data; and
 a microprocessor coupled to said communications interface for processing
 said **converted** decoded **bar code** data, executing said terminal
 operating system and said terminal applications, and controlling the
 operation of...
 ...touch sensitive display comprises a touch sensitive area for receiving
 data inputs from a stylus **pen** ,
 and/ or further preferably comprising an information key for allowing a
 user to display product...

11/3,K/3 (Item 3 from file: 348)
 DIALOG(R)File 348:EUROPEAN PATENTS
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00831846

Packet data communication system

Datenpaketübertragungssystem

Système de communication a paquet de donnees

PATENT ASSIGNEE:

SYMBOL TECHNOLOGIES INC., (417665), One Symbol Plaza, Holtsville, New
 York 11742-1300, (US), (applicant designated states: DE;FR;GB;IT)

INVENTOR:

Tymes, LaRoy, 4032 Campana Drive, Palo Alto, California 94306, (US)

LEGAL REPRESENTATIVE:

Wagner, Karl H., Dipl.-Ing. et al (12561), WAGNER & GEYER Patentanwälte
 Gewürzmühlstrasse 5, 80538 München, (DE)

PATENT (CC, No, Kind, Date): EP 770962 A2 970502 (Basic)
 EP 770962 A3 970702

APPLICATION (CC, No, Date): EP 96118994 900409;

PRIORITY (CC, No, Date): US 374452 890629

DESIGNATED STATES: DE; FR; GB; IT

RELATED PARENT NUMBER(S) - PN (AN):

EP 405074 (EP 901067892)

INTERNATIONAL PATENT CLASS: H04J-003/24; **G06F-013/42** ; H04L-012/40;
 H04L-027/30; H04L-001/12

ABSTRACT WORD COUNT: 127

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB97	913
SPEC A	(English)	EPAB97	17069
Total word count - document A			17982
Total word count - document B			0
Total word count - documents A + B			17982

...INTERNATIONAL PATENT CLASS: **G06F-013/42**

...SPECIFICATION network. Usually the data packet being sent from the
 remote unit is the result of **scanning** a **bar code** symbol. The reply
 from the central station in this case would be a validation of...a number
 of remote units 15. In one embodiment, the remote units 15 are laser-

scan bar - code readers of the hand-held, battery-operated type as disclosed in U.S. Patents 4...

...for manufacturing or process flow control, and many other such uses. Although hand-held, laser- **scan type bar - code** readers are mentioned, the data terminals 15 may also be bar-code readers of the wand type, and may be stationary rather than **hand - held**. The **device** may be of the optical character recognition (OCR) type, as well. Other types of data... are used to access peripherals such as keyboard, video display, etc., as well as disk **storage** 24 for the database system and other computer functions.. A communications adapter 25 couples the...is coupled to the CPU via the bus 42 and used to detect and/or **convert** data from the **bar code scanning** section to be stored in the memory 41 and processed by the CPU 40; other...

...according to a protocol. In the example of the remote unit 15 being a laser- **scan bar - code** reader, the device 43 is used to input data from a photodetector device 46 which...

...that the CPU 40 can handle all of these tasks, including data input from the **bar code** scanner, keyboard and display **scan**, RF control, datastream transfers to and from the RF, and data encoding and decoding, because...using a V-25 device for both the CPUs 30 and 40 simplifies the code- **writing** task since some of the code is used in both base and remote units. The...

...be advantageously employed in a system having features of the invention, a hand-held, laser- **scan, bar code** reader unit as illustrated in Figure 5 is an example of a remote unit particularly suited for use in the system of Figure 1. This **hand - held device** of Figure 5 is generally of the style disclosed in U.S. Patents 4,760...the remote unit 15 is illustrated. For this example it is assumed that the laser- **scan bar code** reader of Figure 5 is being used as the data gathering device. The idle state...

11/3,K/4 (Item 4 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00336560

A hand - held **sales data processing device, and system therefor.**
Ein in der Hand zu haltendes Verkaufsdatenverarbeitungsgerat und System dafur.

Appareil manuel et systeme associe pour le traitement de donnees de vente.

PATENT ASSIGNEE:

CASIO COMPUTER COMPANY LIMITED, (249360), 6-1, 2-chome, Nishi-Shinjuku, Shinjuku-ku Tokyo, (JP), (applicant designated states: DE;FR;GB;IT)

INVENTOR:

Motoike, Katsuhiko Pat. Dept. Develop. Div. Hamura, R & D Center CASIO COMP. CO. LTD. 3-2-1, Sakae-cho, Hamura-machi Nishitama-gun Tokyo 190-11, (JP)

LEGAL REPRESENTATIVE:

Patentanwalte Grunecker, Kinkeldey, Stockmair & Partner (100721), Maximilianstrasse 58, D-8000 Munchen 22, (DE)

PATENT (CC, No, Kind, Date): EP 332844 A2 890920 (Basic)
EP 332844 A3 901017

APPLICATION (CC, No, Date): EP 89102147 890208;

PRIORITY (CC, No, Date): JP 8829137 880210

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: G06F-015/24
ABSTRACT WORD COUNT: 99

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	989
SPEC A	(English)	EPABF1	3998
Total word count - document A			4987
Total word count - document B			0
Total word count - documents A + B			4987

A hand - held **sales data processing** device , and **system** therefor.
INTERNATIONAL PATENT CLASS: G06F-015/24

...SPECIFICATION optical read means for reading recorded information representing a product code from a recording medium; **storage** means for storing sales data including the name of a product and the unit price corresponding to the **product code** ; **converting** means for **converting** the **product code** read by the optical read means to sales data stored in the **storage** means; display means for displaying the sales data converted by the converting means; and transmitting...

...optical read means for reading recorded information representing a product code from a recording medium, **storage** means for storing sales data on the basis of the product code read by the optical read means, and transmitting means for transmitting the sales data stored in the **storage** means; **storage** means for totaling and storing sales data transmitted from the handy type sales data processing...for example, on a desk, the hand scanner to stop the light-emitting operation for **bar - code scanning** and other circuit operations by turning power off. When the scanner is placed in position...plurality of light-emitting devices for a light source of the optical reader. Alternatively, a **pen** -type scanner may be used which uses one light-emitting device to read information. Transmitting...

...CLAIMS means (11-16) for reading recorded information representing a commodity code from a recording medium;
storage means (11-17) for storing sales data including the name of a commodity and the...

...the commodity code read by said optical read means to sales data stored in said **storage** means;
display means (11-1) for displaying the sales data converted by said converting means...

...means (11-16) for reading recorded information representing a commodity code from a recording medium;
storage means (11-17) for storing sales data including the name of a commodity, and a unit price corresponding to the commodity code;
total value **storage** means (11-17) for storing a total value of the number sold per commodity;
updating means (11-17) for updating the total value in said total value **storage** means each time recorded information is read by said optical read means;
display means (11...

...11-18) for transmitting the commodity code and the total value in said total value **storage** means updated by said updating means.

3. A handy type sales data processing device comprising...

...means (11-16) for reading recorded information representing a commodity

code from a recording medium;
storage means (11-17) for storing commodity codes and total values of numbers sold corresponding to the commodity code;
retrieving means (11-11) for retrieving data stored in said **storage** means in accordance with corresponding the code read by said optical read means;
totaling means...

...said specifying means; and
clearing means (11-11) for clearing the total value in said **storage** means after the transmission operation of said transmitting means is completed.

4. A sales data...

...means (11-16) for reading recorded information representing a commodity code from a recording medium,
storage means (11-17) for storing sales data on the basis of the commodity code read by said optical read means;
a secondary battery (11-20) for backing up said **storage** means,
transmitting means (11-18) for transmitting the sales data in said **storage** means, and
charging terminals (11-17) connected to said secondary battery; and
a main body...

...means (11-16) for reading recorded information representing a commodity code from a recording medium,
storage means (11-17) for storing sales data on the basis of the commodity code read...

...means, and
first transmitting means (11-18), for transmitting the sales data stored in said **storage** means;
a sales data collecting device having
totaling means (13-21) for totaling sales data transmitted from said handy type sales data processing device for each commodity codes;
storage means for storing sales data totaled by said totaling means; and
second transmitting means (13-21)...

...the detection by said detection means (11-11), to transmit the sales data in said **storage** means (13-21).

8. A handy type sales data processing device comprising:
optical read means...

11/3,K/5 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01060154 **Image available**

WIRELESS SHOPPING SYSTEM AND METHOD
SYSTEME ET PROCEDE D'ACHAT SANS FIL

Patent Applicant/Assignee:

COMPUTER ASSOCIATES THINK INC, One Computer Associates Plaza, Islandia,
NY 11749, US, US (Residence), US (Nationality)

Inventor(s):

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Patent and Priority Information (Country, Number, Date):

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Priority Application: WO 2002US12175 20020419

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

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Main International Patent Class: G06F-017/60

Fulltext Availability:

Detailed Description

English Abstract

...shop for one or more items by comparing the items with similar items using a **portable** wireless communication **device** .

Detailed Description

... a user to shop for items
after comparing the items to similar items using a
portable wireless communication **device** .

Background Information

Bar code scanners read Universal Product Codes
("UPCs"). There are a variety of...

...the memory of
the bar code scanner. Items can be removed from the
list by **scanning** the **bar code** on the item they wish to
remove, press a delete button and the item is...

...been incorporated into
personal digital assistants for electronic shopping.

These devices can be used to **scan bar codes** on items,
from catalogs or from advertisements producing an
electronic shopping list.

There is a need, however, for a **portable** wireless
communication **device** including a bar code scanner that
provides users information about a scanned item and also...

...exemplary embodiment of a
wireless shopping system of the present disclosure;
Fig. 2 illustrates a **portable** wireless
communication **device** of the present disclosure;
Fig. 3 illustrates an exemplary data block of a
data record...

...to the present disclosure;
Fig. 7a illustrates an exemplary embodiment of a

11/3,K/6 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01028558 **Image available**

PURCHASING AID LOGISTICS APPLIANCE AND METHOD TO USE SAME
INSTRUMENT LOGISTIQUE D'AIDE A L'ACHAT ET PROCEDE D'UTILISATION ASSOCIE

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Patent and Priority Information (Country, Number, Date):

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG
SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SI SK
TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

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Fulltext Word Count: 10848

Main International Patent Class: **G06F-017/60**

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... 10 can upload

the list to the merchant's computer via an Internet portal for
storage . The merchant may review the list and check inventory
to assure the products are in...binary circuits, which must be decoded
before the location can be opened for reading or **writing** . The
central processor 11, ...to the RAM 10, RAM input 13 and RAM output 12.

Programs stored on permanent **storage** devices are accessed by
software in the read only memory basic input/output operating
system...operating system

(ROM BIOS) 25. When a program executing in RAM 10 has data to
write to the display, it calls the video out routine in ROM BIOS
25 and sends...the first is secure and second is disabled. By
way of read circuitry 23 and **write** circuitry 22 encrypted RAM 20
functions as ordinary memory when set to secure mode. When...

...the data retrieved by way of read circuitry 23 is not logical and therefore useless. **Write** circuitry 22 does not function in a ...the smart card is inserted into the PAL 10, the address decoder 55 reads and **writes** data in secure mode as normally directed by the central processor 11. In FIG. 11...

...hexadecimal F is used though any number is acceptable. The processor 11 now issues a **write** -to-memory command by calling for base address B000 50. The address decoder 55 receives...computes memory select lines 53 as if the address were B00F. The central processor 11 **writes** a 4-byte variable so that 4 successive RAM 8 bit per byte locations are...

...for B010 (B00I+F) by address decoder 55. The central processor 11 thinks it is **writing** B000 through B003 four successive locations for this one variable. The four bytes are now...the encrypted RAM data to an alternate location. if the data were offloaded onto temporary **storage** then the encode key could be changed periodically and the secure data reloaded back to...10 can upload the list to the merchant's computer via an Internet portal for **storage** . The

Claim

... merchant computer transmits product information in response to a signal by said purchasing aid logistics **appliance** for product information.

3 The **portable** 2-way secure purchasing aid logistics appliance according to claim 1 wherein said means for...claim I wherein said means for inputting information is a bar code scanner, whereby said **bar code** scanner **scans** print media **bar codes** having product information and generates bar code signals to said central processor for further processing...aid logistics appliance according to claim 4 wherein said central processor includes executable software to **convert bar code** signals into a web page to be displayed on said display.

7 The portable 2...merchant facility;
 . receiving product data from said merchant computer upon entry into said merchant facility;
scanning a product **bar code** when a product is removed from the shelf and placed in a shopping cart for...

11/3,K/7 (Item 3 from file: 349)
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00914716 **Image available**

BAR CODED BILL PAYMENT SYSTEM AND METHOD

SYSTEME ET PROCEDE DE PAIEMENT DE FACTURES A L'AIDE DE CODES-BARRES

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Patent and Priority Information (Country, Number, Date):
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Application: WO 2001US48442 20011214 (PCT/WO US0148442)
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EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
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SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

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Main International Patent Class: G06F-017/60

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... of automated or machine printed monthly invoice statements, which average 15.9 billion annually.

Customers **write** checks, as payment for these invoices, and return them via the mail network. When received...data identifying at least the payee and the payor. The scanning apparatus is configured to **scan** a printed representation of the **bar code**. The **scanning** apparatus is capable, based on information stored in the bar code and a payment made...

...at least the payee and the payor; and permitting a third 3 1 party to **scan** a printed representation of the **bar code** and, based on the identifying information of the bar code and a payment made by...

...the payment.

In another aspect, a method of transferring money consistent with the invention comprises: **scanning** a printed **bar code** comprising data identifying at least an account number corresponding to an account to which a...legacy customer account numbering systems to a simpler, newer scheme, can use this system of **bar coding** in its **conversion** process. In an alternative embodiment, electronic invoice delivery, whereby the customer receives and prints the...customer account number. If these fields were concatenated in a fixed format in a single **bar code scan** line on a bill head, it is very doubtful that low skilled retail help would reliably **scan** the correct **bar code** where multiple bar codes might appear on a given bill head. To perform effort-free...

...bar code "signature" having multiple levels of data validation implemented by check digit algorithms, a **bar code scanning** system may reliably recognize and validate a valid bill payment bar code. The concept of...

...data validation schemes.

A number of different application "signature" formats may be implemented within a **bar code scan** line as a series of successive embedded "signature" data fields.

In one embodiment, each signature...1 envelope data string is not successful, the retail cashier should not get a good **bar code scan** confirmation. If the hardware decode is successful, the retailer cashier should get a good bar...utilizing an embedded check digit 3 1 algorithm to verify the integrity of the entire **bar code scan** line data. It is strongly recommended that the biller defined customer account number also contain...

- ...check digit that is checked then discarded before presentment to the biller. If the detected **bar code scan** line data correctly passes the triple tiered and multiple embedded check digit calculations, this mechanism...
- ...bill remittance stub such that only the required bar code is visible for a successful **bar code scan** of the bill payment information. Vertically printed bar codes of the format designator, biller 1...
- ...that a customer account number I I would be read in error if the hardware **bar code** check symbol **scan** validates, this additional check digit provides double assurance to the biller that the customer account...
- ...of information. During the checkout aisle scanner process, the back-end host processor recognizes a **bar code** data **scan** line as a valid bill payment transaction and requires the cashier to enter an amount...payment "signature" bar code to be scanned for the proper processing of a customer payment. **Scanning** any other **bar code**, present on the bill remittance stub, that does not pass all of the bill payment...
- ...to 3 1 implement within the back-end host processor is as follows: if this **bar code scan** is not recognized as one of several defined pre-programmed sequences, pass it to the...
- ...back-end host processor. The DCNI should also provide a non-volatile 2 1 memory **storage** capability of accumulated customer bill payment data. This may be accomplished with a solid state...
- ...of support functions to the retailer host processor to aid in the collection, validation and **storage** of transaction data from customer bill remittance stubs scanned at the checkout counter.

Figures' 12...packets from the firewalls 1405, to coalesce the data packets into data files and to **write** them to the FTP **storage** server 1408, which may comprise RAID (redundant array of inexpensive disk) **storage** or similar mass **storage**.

In the FTP **storage** machine 1408, a monitor process scans for completed inbound files to process. Upon finding such...the transaction collection server 1410. The transaction collection server 1410 database is configured across several partitioned sets of physical hardware 1411 set up for RAID **storage** operation. The primary purpose for spreading the databases over several pieces of physical and logical...

- ...various elements of the network communicate with each other and access each other's mass **storage** as local devices. The web/fax server 1430 provides on-demand reports to retailers through...
- ...transmits this data file to the appropriate destination bank interface.

...said payee via said accounting software.

101. A method of transferring money, said method comprising:

scanning a printed **bar code** comprising data identifying at least an account number corresponding to an account to which a...

...8 Internet, via a wide-area network (WAN), via a local-area network (LAN), via **diskette**, and via **removable storage** medium.

113. A method as claimed in claim 102, further comprising providing an automatic caller response system and/or Internet access to said data for...the Internet, via a wide-area network (WAN), via a local-area network (LAN), via **diskette**, and via **removable storage** medium. 123. A method of providing for payment from a payor to a payee, comprising...

11/3,K/8 (Item 4 from file: 349)
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00877790 **Image available**

PROCESSING PROGRAM DATA FOR MEDICAL PUMPS

DONNEES DE PROGRAMME DE TRAITEMENT POUR POMPES MEDICALES

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Patent and Priority Information (Country, Number, Date):

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Priority Application: US 2000631000 20000802

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AE AG AL AM AT (utility model) AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
CU CZ (utility model) CZ DE (utility model) DE DK (utility model) DK DM
DZ EC EE (utility model) EE ES FI (utility model) FI GB GD GE GH GM HR HU
ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX
MZ NO NZ PL PT RO RU SD SE SG SI SK (utility model) SK SL TJ TM TR TT TZ
UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

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Fulltext Availability:

Claims

Claim

... an input with the computer

keyboard. Such a scanner includes firmware or other programming that **converts** a scanned **bar code** to key strokes and inputs them into the computer. Yet other embodiments use a scanner...like.

The computer 104 further includes a hard disk drive 212 for reading from

and **writing** to a hard disk, a magnetic disk drive 214 for reading from or **writing** to a removable magnetic disk 216, and an optical disk drive 218 for reading from or **writing** to a removable optical disk 219 such as a CD ROM, DVD, or other optical...

...optical drive interface 224, respectively. The drives and their associated computer-readable media provide nonvolatile **storage** of computer readable instructions, data structures, programs, and other data for the computer 104. Although...

...the medical pump 112 and hand-held computer can serve as both input and output **devices**. Additionally, the term **hand - held** computer is used broadly to mean any type of portable computing platform that can interface...

...to the personal computer 200, or portions thereof, may be stored in the remote memory **storage** device. It will be appreciated that the network connections shown are exemplary, and other means...with respect to the power supply or pump hardware. Alarm signals sent from microprocessor 302 **pen** -nit activation of alarm 332.

In addition, external communication sensor 334 senses when a communications...

...remote dose cord also can be used by the patient as an event marker for **storage** in pump memory 304. For example, the patient can use the remote dose cord to...is a power failure while data is being written to the RAM 312. During the **write** process, destination addresses will be designated to receive the data. However, data is first saved...

...data is being written to the scratch memory. A second flag is set after the **write** process is complete at which time it is written from the scratch memory to the...

...the data from the scratch memory to the destination address or can merely complete the **write** process from the scratch memory to the destination addresses. An advantage of using the scratch...interface for communication between the pump 110 and the computer 104. The interface' **pen** -nits a single computer and its information management system 106 to interface with a variety...

...and the information management system 106 before exchanging data. The database 802 includes a data **storage** area 806 and a database engine 808 for linking the DBMS 800 with data in the data **storage** area 806. The information management system 106 can be programmed using any data manipulation language...

...Corporation of Redmond, Washington. Many possible embodiments and data structures for data in the data **storage** area 806 are possible. For example, the data can be structured using arrays, records, or...related utilities. The drug, patient, or therapy might have an I.D. embodied in a **bar code** that the caregiver **scans**. A utility or some other program module then communicates the scanned I.D. to the...held stores the newly generated program data and synchronizes it to the computer 104 for **storage** as described above.

Alternatively, the hand-held computer erases the program data after it i...

...and weight. Additionally, the hand-held computer may include a scanner that allows it to **scan** a **bar code** on a drug package such as an IN. bag or a patient I.D. one...3 wherein the computer is in data communication with

a scanner, the method further comprising:
scanning a bar code with the scanner; and
entering the bar code into the computer,
wherein the act of...

...further comprising uploading a set of program data items from the pump.
6 A computer storage medium contain a library of pump data, the
computer
storage medium be created by the method set forth in claim 1.

7 An apparatus for...

...The method of claim 17 wherei n the act of entering a data key includes
scanning a bar code .

19 The method of claim 16 wherein an information management system is
loaded on a...

11/3,K/9 (Item 5 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00872902 **Image available**

SYSTEM AND METHOD FOR FACILITATING RECEIPT AND COLLECTION OF GOODS ORDERED
FROM ONLINE RETAILERS

SYSTEME ET PROCEDE FACILITANT LA RECEPTION ET LA COLLECTE DE MARCHANDISES
COMMANDEES AUPRES DE CYBERCOMMERANTS

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designated states except: US)

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ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
TR TT TZ UA UG US UZ VN YU ZA ZW

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Main International Patent Class: G06F-017/60

Fulltext Availability:

Detailed Description
Claims

Detailed Description

... code on a label on the package-this bar code may be scanned on a **bar code scanning** interface coupled to the automated collection point. In other embodiments, the package ID

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may...each server will physically reside on its own dedicated machine. A conventional server with sufficient **storage**, memory and processing capability will be sufficient for each of these machines.

Central servers connect...used.

Web Server IO 1 0 will have a conventional hard-disk magnetic or optical **Storage** Device 1022 arranged in a Random Array of Inexpensive Disks RAID configuration. No 1 5...

...data will be stored on this unit - all business data will be stored on the **storage** unit of the Application Server 1040. The only data that will be stored on the **storage** device of the Web Server I 0 1 0 will be the Operating System 10...1066 and Memory 1067 - both Random Access Memory RAM and Read Only Memory ROM.

The **Storage** Device 1068 will be conventional Hard Disk 1069 magnetic or optical **storage** units arranged in a Random Array of Inexpensive Disks RAID configuration, or other secondary **storage** systems apparent to those skilled in the art.

The Application Server could be split into...1086 and Memory - both Random Access Memory RAM and Read Only Memory ROM 1087.

The **Storage** Device 1090 will be conventional Hard Disk 1091 magnetic or optical **storage** units arranged in a Random Array of Inexpensive Disks RAID configuration.

The ACP Server 1070...Solid state memory i.e. RAM is preferred to a hard-disk or any other **storage** device containing moving parts. This is because the ACP Site will be in unattended as well as attended situations which may result in the ACP Site being jostled: moving-part **storage** could malfunction in this environment.

The data stored in RAM 921 can be grouped into...the Customer 400's account on the Application Server, assigns a Customer 400 ID and **writes** a cookie to the Customer 400's device providing a fast link to the Customer...213, the tracking number, generated by delivery company software at the Etailer

34

site, is **converted** into a **bar - code** and added to the package label. Then the address field on the Etailer 700 site...then prompts him to either enter the Parcel ID for the package or present the **bar - code** for **scanning**. If the package address contains text telling the deliverer that the package is barcode enabled...of the locker. Depending on the business model implemented the Customer 400 may pay for **storage** in part or completely. If money is owed the CENTRAL CONSOLE proceeds in step 420...

Claim

... after opening the lock, sending an electronic delivery confirmation message from the transponder to a **handheld device** in the vicinity of the enclosure, the **handheld device** operated by a party which has

delivered the package to the enclosure.

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SUBSTITUTE SHEET...

- ...controlled by an automated lock, the method comprising: receiving a first tracking number at a **portable handheld device**, the first tracking number corresponding to a package to be delivered to the enclosure; receiving the first tracking number wirelessly from a transponder resident on the **handheld device** to a receiver coupled to the enclosure; in response to receiving the first tracking number...
- ...receiving the first tracking number further includes wirelessly receiving the first tracking number in the **portable handheld device**

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SUBSTITUTE SHEET (RULE 26)

I 10. The method of claim 9, further comprising:
after...

- ...confirmation message indicating delivery of the package from the transponder on the enclosure to the **portable handheld device**. I 11. The method of claim 10, wherein the transponder on the enclosure operates over...
- ...the enclosure includes a bar code scanner operably coupled to the microcontroller, the method comprising:
scanning a **bar code** printed on a label affixed to, or associated with, a package to the bar code...

- ...affixed to the enclosure.

50

SUBSTITUTE SHEET (RULE 26)

- 16 A method of operating a **storage** device for the delivery and pick-up of goods, the **storage** device including an automated lock operably coupled to a local microcontroller fixed to the **storage** device, the microcontroller in communication with a remote computing system via a wide area network...
- ...10 receiving a delivery company code at an input device locally coupled to the **storage** device;
11 searching for the delivery company code against the plurality of codes in 19 A **storage** device for the delivery and pick-up of goods, the **storage** device comprising:
a plurality of enclosures for receiving and securing the goods, the plurality of...
 - ...of claim 19, wherein the memory stores delivery company identifiers for delivery companies.
 - 22 A **storage** device for the delivery and pick-up of goods, the **storage** device comprising:
a plurality of enclosures for receiving and securing the goods, at least a...

...the plurality of enclosures are located remotely from the home locations of customers.

24 A **storage** device for the delivery and pick-up of goods, the **storage** device comprising:
a plurality of enclosures for receiving and securing the goods, at least a...

...1 0 or associated with, the purchased product.

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SUBSTITUTE SHEET (RULE 26)

25 A **storage** device for the delivery and pick-up of goods, the **storage** device comprising:
a plurality of enclosures for receiving and securing the goods, at least a...

...memory prior to delivery a product to an enclosure by a delivery company.

27 A **storage** device for the delivery and pick-up of goods, the **storage** device comprising:
a plurality of enclosures for receiving and securing the goods, at least a...

...of the delivery company to the enclosure memory.

53

SUBSTITUTE SHEET (RULE 26)

29 A **storage** device for the delivery and pick-up of goods, the **storage** device comprising:
a plurality of enclosures for receiving and securing the goods, at least a...The method of any preceding claim, wherein the input device is physically associated with the **storage** device and is one of a keyboard, a smart card reader, a radio receiver, an...

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00824235 **Image available**

BAR CODE SCANNER AND SOFTWARE INTERFACE INTERLOCK

LECTEUR DE CODES A BARRES ET VERROUILLAGE D'INTERFACE LOGICIELLE

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Priority Application: US 2000496208 20000202

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ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

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Main International Patent Class: G06F-001/00

Fulltext Availability:

Detailed Description

Detailed Description

... marketplace is the bar code scanner.

Scanners come in a variety of configurations from standalone **pens** to input devices which connect to computer ports through an interface device called a "wedge," and in some implementations, **hand - held telecommunication devices**. Advances in bar code technology are expanding the amount of information which can be encoded...with the browser program that runs on the PC 906. This is stored in a **storage** location represented by a block 1304. This IID 1304 is accessible by a remote location...to FIGURE 16, there is illustrated a general block diagram of a disclosed embodiment. A **bar code scanning** input device 1600 is provided by a input device distributor to customers and is associated...

...bar codes, it can be appreciated that a user having the input device 1600 can **scan bar codes** of a multitude of products in order to obtain more information. Information about these products...

...may provide catalogs of advertisements or information in newspapers or periodicals where the user simply **scans** the **bar code** associated with the advertisement using the input device 1600 to obtain further information. There...

...and an associated bar code 1606. (Note that the disclosed concept is not limited to **scanning** of **bar codes** 1606 from paper sources 1602, but is also operable to **scan** a **bar code** 1606 on the product itself. Also, the input device 1600 can be any type of...

...device distributor, the user connects the input device 1600 to their PC 302. During a **scanning** operation, input device 1600 reads **bar code** data 1606 and the input device ID into a "wedge" interface 1608 for conversion into...a display 1612. The wedge interface is operable to provide a decoding function for the **bar code** and **conversion** thereof to keystroke input data.

In operation, the product code of a product is provided...

...e., to the ARS 308. It is important to note that the information in the **bar code** 1606 must be **converted** from its optical image to numerical values which are then ultimately input to the keyboard...

...also called "framing").

The selected information comprises the product information which the user requested by **scanning** the **bar code** 1606 using the input device 1600, information about the input device distributor which establishes the...

...be related to the product of interest or totally unrelated. For example, if a user **scans** the **bar code** 1606 of a Company A soda, the input device distributor may generate an advertisement of...associated with the input device distributor by way of a input device ID such that **scanning** a product **bar code** 1606 in order to obtain information about that particular product generates one or more responses...

...keyboard input of the PC 302.

The microcontroller 1700 performs this function after decoding this **bar code** information, and **conversion** of this **bar code** information into an appropriate stream of data which is comprised of the bar code information...

...in either direction. Timing considerations need to be addressed because of the variety of individuals **scanning** the **bar code** introduce a wide variety of **scan** rates. **Bar codes** use bars of varying widths. The presence of a black bar generates a positive pulse...number of bits of information including the bar code information 1802 obtained from the user **scanning** the **bar code** with the input device 1600; the input device ID 1804 which is embedded in a...

...to present the framed information to the user. As is mentioned hereinabove, when the user **scans** a **bar code** 1606 using the input device 1600, a input device program running on the user PC...
...contains addresses for the web sites containing the product information requested by the user when **scanning** the **bar code** 1606 with the input device 1600. Under a product heading 2102 are listed the particular ...comprises standard devices such as a processor 2612 having an associated memory 2614, a mass **storage** unit 2616, a computer keyboard interface circuit 2618 having the keyboard port 2500, and a...

...interface to a central 1 5 registration server (CRS) 2700 having an associated CRS database **storage** unit 2702. The registration process is required for operation of the scanner 1600.

In one...1604. It can be appreciated that the function of the CRS 2700 and associated database **storage** unit 2702 can be consolidated into the ARS 3 08 and ARS database 3 1...

11/3,K/11 (Item 7 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00790561 **Image available**
SYSTEMS, METHODS AND COMPUTER PROGRAM PRODUCTS FOR SCANNING UNIFORM
RESOURCE LOCATORS TO ACCESS AND DISPLAY INTERNET RESOURCES
SYSTEMES, PROCEDES ET PRODUITS DE PROGRAMMES D'ORDINATEUR DESTINES A
SCANNER DES LOCALISATEURS DE RESSOURCES UNIFORMES PERMETTANT D'ACCEDER
ET D'AFFICHER DES RESSOURCES INTERNET

Patent Applicant/Assignee:

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P.A., P.O. Box 37428, Raleigh, NC 27627, US,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200124051 A1 20010405 (WO 0124051)
Application: WO 99US22158 19990924 (PCT/WO US9922158)
Priority Application: WO 99US22158 19990924
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
AE AL AM AT AT (utility model) AU AZ BA BB BG BR BY CA CH CN CU CZ CZ
(utility model) DE DE (utility model) DK DK (utility model) EE EE
(utility model) ES FI FI (utility model) GB GE GH GM HR HU ID IL IN IS JP
KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU
SD SE SG SI SK SK (utility model) SL TJ TM TR TT UA UG UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 6136

Main International Patent Class: G06F-017/30

Fulltext Availability:
Detailed Description
Claims

Detailed Description

... Web site

URL in an advertisement that the consumer would like to visit, the consumer **writes** down the URL and sub sequently types ...fairly long and may contain complex arrangements of awkward characters.

Accordingly, the task of manually **writing** down URLs and manually entering them into a browser can be somewhat laborious and prone...

...URLs into

browsers. One method involves entering a URL directly into a personal digital assistant (**PDA**) or other **portable** communication **device** and then cutting and pasting the URL into a browser using known editing techniques. This...

...code

in an advertisement corresponding to the identification number assigned by Neorex. When a user **scans** the **bar code** with a special **scanning** device provided by Neorex, the identification number associated with the scanned bar code is transmitted...

...via a browser, information transmitted from the server.

The present invention allows users to directly **scan**

URLs that are either in **bar code** format or ...therewithin to a server, in response to scanning a URL.

Accordingly, the need to manually **write** down and type a URL into a browser may be eliminated using a communications device...

...such as a web page, hosted by a web server.

Fig. 3 illustrates an exemplary **PDA** having a scanning **device**.

Fig. 4 illustrates an exemplary bar code.

Fig. 5A illustrates an advertisement having a Web...

...present invention

may take the form of a computer program product on a computer-readable **storage** medium having computer readable program code means embodied in the medium. Any suitable computer readable medium may be utilized including hard disks, CD-ROMs, -optical **storage** devices, or magnetic **storage** devices..

As is understood by those skilled ...client 10. Exemplary clients 10 may include, but are not limited to, desktop computers and **portable** computing **devices**, such as personal digital assistants (PDAs). A client 10 preferably includes a central processing unit 11, a display 12, a pointing device 13, a keyboard 14, access to persistent data **storage**, and an Internet connection 16 for connecting to the Internet 17. The keyboard 14, having...

...or other computational devices. A portion of the random access memory and/or persistent data **storage**, referred to as "cache," is often utilized during communications between a client 10 and a...

...megabytes

(8 MB) of RAM, and at least five megabytes (5 MB) of persistent computer **storage** for caching. Even more preferable is an Intel® Pentium.0 processor (or equivalent). However, it...

...21, a display 22, a pointing device 23, a keyboard 24, access to persistent data **storage**, and an Internet connection 26 for connecting to the Internet 17 via a modem 25...

...megabytes (16 ME) of RAM, and at least eight hundred megabytes (800 ME) of data **storage**.

However, a Web server 20 may be implemented using other processors and via other computing...

...files. In response to this demand, personal digital assistants (PDAs) have been developed. A **PDA** is a compact **device** that can serve various functions of a cellular phone, facsimile

...representation of said URL.

14 A personal digital assistant according
to Claim 13 wherein said **scanning** means comprises a **bar**
code reader. 6

15 A personal digital assistant according
to Claim 11 wherein said scanning means...

11/3,K/12 (Item 8 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00535089 **Image available**
**METHOD AND APPARATUS FOR STORING REFERENCE CODES IN A WRITING INSTRUMENT
AND FOR RETRIEVING INFORMATION IDENTIFIED BY THE REFERENCE CODES**
**PROCEDE ET APPAREIL DE STOCKAGE DE CODES DE REFERENCE DANS UN INSTRUMENT
D'ECRITURE ET D'EXTRACTION D'INFORMATIONS IDENTIFIEES PAR LES CODES DE
REFERENCE**

Patent Applicant/Assignee:

A T X INTERNATIONAL INC,

Inventor(s):

BUCKLEY John E,
PETERSON Thomas H,
LINDERSON Paul E,
MERCURIO Frank,
SOUTHWORTH Robert O,
HOGAN Bob,
CUDDY Nancy,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9966441 A1 19991223

Application: WO 99US13679 19990616 (PCT/WO US9913679)

Priority Application: US 9889891 19980619

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH
GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN
MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW
GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE
DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR
NE SN TD TG

Publication Language: English

Fulltext Word Count: 7579

**METHOD AND APPARATUS FOR STORING REFERENCE CODES IN A WRITING INSTRUMENT
AND FOR RETRIEVING INFORMATION IDENTIFIED BY THE REFERENCE CODES**

Main International Patent Class: G06F-017/60

International Patent Class: G06F-017/30 ...

Fulltext Availability:

Detailed Description

Claims

Detailed Description

METHOD AND APPARATUS FOR STORING REFERENCE
CODES IN A **WRITING** INSTRUMENT AND FOR RETRIEVING
INFORMATION IDENTIFIED BY THE REFERENCE CODES
Related "plications

This application claims...

...invention relates to a system that uses an instrument having an electronic 15 reading, **storage** and transmission apparatus incorporated therein to read, store and subsequently transmit reference codes to a...

...at home or at work and by -sales personnel working for companies, the user must **write** down, or otherwise note, the catalog number(s) and often the price(s) for a...the telephone or fax or in some instances over the Internet and types in or **writes** down the particular stock or other security and the number of shares of such stock...

...193 to Wellner, incorporated herein by reference, describes a method by which a user may **scan** a printed **bar code** or alphanumeric I.D. code to obtain information about the object with which the bar...easily store a reference code associated with a periodical, article, or advertisement using a convenient **writing** implement. The **writing** implement includes an electronic data reading, **storage** and transmission apparatus. Furthermore, embodiments of the present invention facilitate catalog shopping for both customers...

...wanted to record a reference to a particular Internet website, while commuting was required to **write** down the site's uniform resource locator (URL) on a piece of paper. Later on...

...or security associated with the detected reference code.

One embodiment of the invention includes a **writing** implement. The **writing** implement 15 includes a **writing** end and, at the end opposite to the **writing** end, a data transfer end. The data transfer end reads reference codes associated with coded computer via wireless communication technology. In still another embodiment, the **writing** implement can communicate directly with a computer using wireless communication technology. The wireless communication technology can include an infra-red or a radio-frequency link. Once the **writing** implement transmits signals representing the scanned code to a computer, the computer launches an application...

...or other broad-based computer communication network using an altered version of a commonly-carried **writing** instrument.

Brief Description of the Drawings

For a better understanding of the present invention, reference...

...article having a bar code contained therein;
Figs. 2(A) - 2(E) show an electronic **pen** used in one embodiment of the present invention
for reading the bar code of FIG. 1;
Figs. 3(A) - 3(E) show an interaction of the electronic **pen** of Fig. 2 with a **pen** well coupled to a computer system in accordance with one embodiment of the present invention...

...a perspective view and a perspective exploded view, respectively, of one embodiment of the electronic **pen** of Fig. 2;
Figs. 6(C) and 6(D) are a side view and a cross-sectional view, respectively, of the embodiment of the electronic **pen** of Figs. 6(A) and 6(B);
Fig. 7 is a schematic block diagram of one embodiment for signal processing for components of the electronic **pen** of Fig. 2;

12/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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016935622 **Image available**
WPI Acc No: 2005-259932/200527
XRPX Acc No: N05-213270

Electronic device synchronizing method involves initiating
synchronization communication session when position of personal digital
assistant lies within specific distance from position of desktop computer
Patent Assignee: SONY CORP (SONY); SONY ELECTRONICS INC (SONY)
Inventor: ABRAM P M; BECKWITT M; GUDORF G D; ISO K; RAYMOND B; SIEGEL B ;
TOBIN C M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6874037	B1	20050329	US 2000596527	A	20000619	200527 B

Priority Applications (No Type Date): US 2000596527 A 20000619

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6874037	B1	12	G06F-015/16		

...Inventor: SIEGEL B

Abstract (Basic):

... For automatically synchronizing electronic devices such as
personal digital assistant (PDA), notebook computer, mobile phone,
desktop personal computer, laptop, palm pad, portable computer, host
computer, consumer electronic device .

12/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014996981 **Image available**
WPI Acc No: 2003-057496/200305
XRPX Acc No: N03-044532

Access restriction system includes server which communicates with content
access managing module to biometrically authenticate user and to
authorize user's access to media

Patent Assignee: ABRAM P M (ABRA-I); BECKWITT M (BECK-I); GUDORF G D
(GUDO-I); ISO K (ISOK-I); RAYMOND B (RAYM-I); SIEGEL B (SIEG-I); TOBIN C
M (TOBI-I)

Inventor: ABRAM P M; BECKWITT M; GUDORF G D; ISO K; RAYMOND B; SIEGEL B ;
TOBIN C M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020124190	A1	20020905	US 2001797516	A	20010301	200305 B

Priority Applications (No Type Date): US 2001797516 A 20010301

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020124190	A1	11	H04L-009/32		

...Inventor: SIEGEL B

Abstract (Basic):

... restricting access to content of media such as CD, DCD, MD, VHS,

etc., from user **device** such as PC, **PDA** , set-top box, digital television, Internet **appliance** , **portable** computer, cellular telephone, MP3 player, etc...

12/3,K/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014769437 **Image available**
WPI Acc No: 2002-590141/200263
XRPX Acc No: N02-468368

Product information retrieval apparatus for online purchasing, retrieves and converts bar codes of product into machine readable data and stores in removable memory

Patent Assignee: MARCHESELLO T (MARC-I); SIEGEL B M (SIEG-I)

Inventor: **MARCHESELLO T ; SIEGEL B M**

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020082931	A1	20020627	US 2000745669	A	20001221	200263 B

Priority Applications (No Type Date): US 2000745669 A 20001221

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020082931	A1		14	G06F-017/60	

Inventor: **MARCHESELLO T ...**

... SIEGEL B M

Abstract (Basic):

... A scanner (101) is connected to a **portable** electronic **device** , to retrieve bar codes and convert into machine readable data. The converted data are stored...

... For retrieving product related information of various **portable devices** like radio, camera, camcorder, telephone, pager, CD player, TV, video game, etc., and about clothes...

12/3,K/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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009580036 **Image available**
WPI Acc No: 1993-273582/199335
XRPX Acc No: N93-210029

Device for loading vehicle with rolls of floor coverings - comprises portable belt type conveyor with lifting devices at outer end

Patent Assignee: ING BAU & ANLAGENPLANUNG GMBH (INGB-N)

Inventor: BECK J; JAEHNIG H; **SIEGEL B**

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DD 301705	A7	19930722	DD 332088	A	19890825	199335 B

Priority Applications (No Type Date): DD 332088 A 19890825

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DD 301705	A7		8	B65G-067/20	

... comprises portable belt type conveyor with lifting devices at
outer end
...Inventor: SIEGEL B

20/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00874442

MULTICHANNEL AUDIO DISTRIBUTION SYSTEM HAVING PORTABLE RECEIVERS
MEHRKANALIGES TONVERBREITUNGSSYSTEM MIT TRAGBAREN EMPFANGERN
SYSTEME DE DISTRIBUTION AUDIO MULTICANAL A RECEPTEURS PORTABLES
PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 815520 A2 980107 (Basic)
EP 815520 B1 021106
WO 97026601 970724

APPLICATION (CC, No, Date): EP 97900073 970116; WO 97IB19 970116

PRIORITY (CC, No, Date): US 587191 960116

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-017/30

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200245	1036
CLAIMS B	(German)	200245	1013
CLAIMS B	(French)	200245	1098
SPEC B	(English)	200245	11540
Total word count - document A			0
Total word count - document B			14687
Total word count - documents A + B			14687

MULTICHANNEL AUDIO DISTRIBUTION SYSTEM HAVING PORTABLE RECEIVERS
SYSTEME DE DISTRIBUTION AUDIO MULTICANAL A RECEPTEURS PORTABLES
INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION The present invention relates to an apparatus for
providing an audio information signal to a **portable** receiver, in which
a plurality of receivers are serviced by a single information transmitter
system...

...data over channels within a band, or via spread spectrum communications.
Known systems allow the **storage** and retrieval of music on a database
server system, which may be accessed through telephone...

...from a dedicated channel to a common channel with addressed information
packets.

Radio frequency uplink **bar code** scanners are known, which **scan** a
bar code of an object and uplink the code to a centralized system.
Further, systems are known...

...person, having a bar code scanner and which receives information
resulting or relating to a **bar code scan** from a central system,
through a wireless link. These systems are generally used for digital...
Patent No.5,477,215, relates to a system for simultaneously interrogating
a plurality of **portable** data cards. Operable over a plurality of radio

frequencies, the interrogation system sequentially communicates with each **portable** data card as it comes within communication range on a first one of the plurality...

...of the transaction. The interrogation system simultaneously completes each predetermined transaction of reading from and **writing** data to each one of the plurality of cards while communicating with each card on...
...samples or synthesized music or voice, in a semiconductor memory device. Technologies used for this **storage** include masked ROM, EPROM, EEPROM, multivalued stored charge potentials, and RAM.
The known systems may...

...invention;

FIG. 3 is a block diagram of a central server having a remote mass **storage** system of user of the present invention;

FIG. 4 is a block diagram of a...

...information transmission system, a mobile receiver, and an

20/3,K/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00595478

Delivery service management system
Verwaltungssystem fur Lieferungsdienst
Systeme de gestion d'un service de livraison
PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 600448 A2 940608 (Basic)
EP 600448 A3 950503
EP 600448 B1 990127

APPLICATION (CC, No, Date): EP 93119300 931130;

PRIORITY (CC, No, Date): JP 92319143 921130; JP 93285251 931115

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: G06F-017/60

ABSTRACT WORD COUNT: 182

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9904	1895
CLAIMS B	(German)	9904	1855
CLAIMS B	(French)	9904	1889
SPEC B	(English)	9904	16444
Total word count - document A			0
Total word count - document B			22083
Total word count - documents A + B			22083

INTERNATIONAL PATENT CLASS: G06F-017/60

...SPECIFICATION A two-dimensional bar code (a code having a
two-dimensional code pattern corresponding to **storage** information in a
predetermined surface, e.g., a code disclosed in Jpn. UM Applin. KOKAI...

...Dimensional Bat Codes", there are disclosed two-dimensional bar codes
having the capacity to be " **portable** data files" for storing much more
information than the sole identification information of goods, i...
company (or fabric/cloth company) 400, sewer 500, apparel maker 600, or
seller 700 to **write** information of an item in delivery service of this
item. Data in user information area...written in user information area
104 (even a complicated mark can be written when the **storage** capacity
of a two-dimensional bar code is increased). If this mark is read from...
20k comprise two-dimensional bar code readers/writers 30a to 30k,

respectively.

These two-dimensional **bar code** readers/writers **scan** two-dimensional **bar codes** to read their contents. These two-dimensional bar code readers/writers also have a function of converting predetermined data input at the terminal keyboards or the like into two-dimensional **bar code** patterns and **writing** the **converted** code patterns in two-dimensional **bar code** media (labels each having the lower surface with an adhesive).

When retail shop (x) sells...
...data (two-dimensional bar code data including POS data) are temporarily stored in memory or **storage** device 50j (e.g., a local database constituted by a hard disk or the like...)

...retail shop (xi) are also sent to UVAS 100 through line 40 from memory or **storage** device 50k after the closing time of each day.

FIG. 5 is a flow chart...

...with its own scanner. The read two-dimensional bar code data are temporarily stored in **storage** devices (e.g., hard disks) 50g and 50h of apparel makers (vii) and (viii). At the end of office hours of apparel makers (vii) and (viii), the data stored in **storage** devices 50g and 50h are sent to UVAS 100 through line 40 (YES in ST14...with its own scanner. The read two-dimensional bar code data are temporarily stored in **storage** devices 50d and 50f (e.g., hard disks) of fabric companies (iv) and (vi). At the end of office hours of fabric companies (iv) and (vi), the data stored in **storage** devices 50d and 50f are sent to UVAS 100 through line 40 (YES in ST12...use/non-use of pesticides/insecticides) associated with the wheat is attached to a wheat **storage** bag.

The primary processing worker reads the two-dimensional bar code attached to the wheat **storage** bag and sends the read contents to UVAS 100 through communication line 40.

The primary...

...key information of the primary processing worker, and content information is attached to a flour **storage** bag. The bag is then delivered to a secondary processing worker.

The secondary processing worker reads the two-dimensional bar code attached to the flour **storage** bag and sends the read contents to UVAS 100 through line 40.

The secondary processing...

...information of the secondary processing worker, and content information is attached to the resultant macaroni **storage** bag. The macaroni **storage** bags are then shipped to a food maker.

The food maker reads the two-dimensional bar code attached to each macaroni **storage** bag and sends the read contents to UVAS 100 through line 40.

The food maker...

...oil field, and quality) associated with the crude oil is attached to a crude oil **storage** container.

The primary processing worker reads the two-dimensional bar code attached to the crude oil **storage** container and sends the read contents to UVAS 100 through communication line 40.

The primary primary processing worker, and content information is attached to a heavy oil **storage** container or the like. The heavy oil **storage** container is shipped to a secondary processing worker.

The secondary processing worker reads the two-dimensional bar code attached to, e.g., the heavy oil **storage** container and sends the read contents to UVAS 100 through line 40.

20/3,K/3 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01236723

METHOD OF SELECTING AND STORING AIRLINE TICKET DATA

PROCEDE POUR SELECTIONNER ET ENREGISTRER DES DONNEES DE BILLETS D'AVION

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200543314 A2 20050512 (WO 0543314)

Application: WO 2004US34940 20041022 (PCT/WO US04034940)

Priority Application: US 2003513871 20031022

Designated States:

(All protection types applied unless otherwise stated - for applications 2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO
SE SI SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 8795

Main International Patent Class: **G06F**

Fulltext Availability:

Detailed Description

English Abstract

...reservations computer, striping-away data bits included for the ordering and identifying and reading and **writing** of the data stream on magnetic media and selecting and converting the remaining data into...

Detailed Description

... amount of data needed to be contained on the boarding documents in an inexpensive and **portable** manner which also permitted, within the air terminal, recording and re-recording and reading of...

...number, or stock control number, (Fig. 4) that is applied to each card before any **writing** is attempted on the card. A second failure rate of approximately five to seven percent...

...other multi-dimensional "bar codes" or "codes" have been developed to meet the demand for **storage** of **portable** information in as little space as possible. Several terms are used for this type of data **storage** such as "two-dimensional code" or "2-D code" or "two-dimensional symbology" or "2 ...

...This presents an advantage when only a small amount of space is

available for information **storage** . Some examples of the multi-dimensional symbologies that are currently available are.

Matrix Code

"Matrix...

...symbology and was invented by Ynjiun Wang in 1991 at Symbol Technologies. PDF stands for **Portable** Data File, and the symbology consists of 17 modules each containing 4 bars and spaces...

...that extends the height of the symbol. A PDF417 symbol can be read with modified **handheld** laser or CCD scanners. High

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density printers (thermal transfer or laser) should be used...

...substantial cost of the reader and writer devices that currently are used to read and **write** magnetic stripe cards in airports.

It further would be a substantial benefit to air carriers...

...thereby producing a cost savings for the airline industry by eliminating, altogether, the reading and **writing** equipment associated with the use of magnetic stripe cards as well as eliminating the use...a secure area

The resulting data stream of Table 1 or Table 2 would be **converted** into a multidimensional symbology or **bar code** the could have one of the following appearances.

PDF 417 Symbol 49

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Conversion of...

...printed in the two-dimensional symbology from the ticket, a scanning device is used to **scan** the multi-dimensional **bar code** . The various manufacturers of two-dimensional bar codes provide for scanner devices which can be used to **scan** their particular **bar code** format and, thus, are well known in the art and will not be further described...

...interpreter and converter software which permits the interpretation of the particular multi-dimensional symbology or **bar code** and **conversion** of the **bar code** image into binary or ASCII code data stream from which the data may then be...

...the passenger and/or passenger luggage and/or passenger carry-ons which can then be **converted** into multi-dimensional symbology or **bar codes** and printed onto the ticket. Then upon final boarding, the photographic information can be scanned...

20/3,K/4 (Item 2 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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01157397 **Image available**

SYSTEM AND METHOD FOR THE REAL-TIME TRANSFER OF LOYALTY POINTS BETWEEN ACCOUNTS

SYSTEME ET PROCEDE DE TRANSFERT EN TEMPS REEL DE POINTS DE FIDELITE ENTRE DES COMPTES

Patent Applicant/Assignee:

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Sylvia Keys

03-Jun-05 10:15 AM

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East Van Buren, Phoenix, AZ 85004-2202, US,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200479506 A2-A3 20040916 (WO 0479506)
Application: WO 2004US4457 20040217 (PCT/WO US04004457)
Priority Application: US 2003378456 20030303
Designated States:
(All protection types applied unless otherwise stated - for applications
2004+)
AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
SI SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 23506

Main International Patent Class: G06F-017/60

Fulltext Availability:

Detailed Description

Detailed Description

... UPC number, for example.

A POS terminal, a kiosk terminal, or a sales person's **hand - held** terminal might be coupled to a store computer system, such as a network server or...

...the system via any input device such as a keyboard, mouse, kiosk, personal digital assistant, **handheld** computer (e.g., **Palm Pilott**), cellular phone, and/or the Eke. Similarly, the invention could be used in conjunction with...

...a personal computer, although other types of Computing units may be used, including laptops, notebooks, **handheld** computers, set-top boxes, kiosk terminals, and the like. Additionally, other participants may have computing...

...present invention may take the form of a computer program product on a computer-readable **storage** medium having computer-readable program code means embodied in the **storage** medium. Any suitable computer-readable **storage** medium may be utilized, including hard disks, CDROM, optical **storage** devices, magnetic **storage** devices, and/or the like.

The present invention is described below with reference to block... triggering the cashier to provide a "behavior" ID which may be input (e.g., by **scanning** a **bar code** on a paper survey for example) into the POS terminal. Further, any aspects of the...

...triggering the cashier to provide a "behavior" ID which may be input (e.g., by **scanning** a **bar code** on a paper survey for example) into the POS terminal. Further, any aspects of the...110 comprises or is in communication with a suitable database 111 or other **storage** device for maintaining and storing purchase data and any other suitable retailer information. Database I...

...114 and/or national processors communicate I 0 with a suitable database 115 or other **storage** device which is configured to store and maintain purchase data and any other suitable retailer...

...as the elements described above with reference to FIGS. 1, 3, and 4.

Lastly, a **storage** device 520, such as a hard disk drive for example, preferably contains files or records...

...om. the various participating manufacturers.

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One skilled in the art will appreciate that the **storage** device 520 and, therefore, consumer data 522, consumer rewards 524, retailer records 526, and manufacturer...

...502 or may be remotely located with respect to the rewards mechanism 502. If the **storage** device 520 is remotely located with respect to the rewards mechanism 502, communication between **storage** device 520 and rewards mechanism 502 may be accomplished by any suitable communication link but...

...who wish to participate in the system. Enrollment module 512 accesses and stores information in **storage** device 520. In one embodiment, enrollment module 512 receives, stores, and accesses data corresponding to residing in **storage** device 520. In one ...as the elements described above with reference to FIGS. 1@ 3, and 4.

Lastly, a **storage** device 624, such as a database as described above for example, preferably contains files or...

...member profile, and/or the like. One skilled in the art will appreciate that the **storage** device 624 and, therefore, manufacturer data 626, retailer data 628, and consumer data 630 may...

...602 or may be remotely located with respect to the rewards server 602. If the **storage** device 624 is remotely located with respect to the rewards server 602, communication between **storage** device 624 and rewards server 602 may be accomplished by any suitable communication link but...

...module 912, which is substantially similar to enrollment module 512 of FIG. 5, and a **storage** device 920, which is substantially similar to **storage** device 520 of FIG. 5. In one embodiment, enrollment module 912 receives consumer enrollment data from consumers

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and then processes and transmits the consumer enrollment data to **storage** device 920 for **storage** and future retrieval.

In an exemplary embodiment, the retailer system 904 comprises a retailer terminal...

...purchase data. Retailer processor 910 is in communication with a suitable database 911 or other **storage** device for maintaining and

storing purchase data and/or any other suitable retailer information.

In...

...who seek access to profiler 906.

The authentication module may have access to a suitable **storage** device, such as a database for example, which maintains records identifying authorized end-users 924...

...item identifier with a corresponding manufacturer item identifier (e.g., a UK). By translating or **converting** SKU data into corresponding **UPC** data, the goods and/or services that are part of each consumer transaction are characterized...

...issuance of a consumer ID to the consumer, and transmits the consumer enrollment data to **storage** device 920. In this context, the term "consumer ID" shall be understood to include "supplementary..."

...conditioner 914 for the consumer ID contained in the transaction file, then data conditioner 914 **writes** the newly obtained transaction file to the established record in detail database 918 (step 1122 data file from **storage** device ...by using a "key field" (as described above) within each of the records stored in **storage** device 920 and detail database 918. In one embodiment, the standardized transaction file and the...

20/3,K/5 (Item 3 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00777227 **Image available**

ELECTRONIC SYSTEM FOR TRACKING AND MONITORING ARTICLES TO BE STERILIZED AND ASSOCIATED METHOD

SYSTEME ELECTRONIQUE DE SUIVI ET DE SURVEILLANCE D'ARTICLES A STERILISER, ET PROCEDE ASSOCIE

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HOHENSHELL Jeffrey J, Office of Intellectual Property Counsel, Post Office Box 33427, Saint Paul, MN 55133-3427, US

Patent and Priority Information (Country, Number, Date):

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Application: WO 2000US18720 20000710 (PCT/WO US0018720)

Priority Application: US 99369098 19990805

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AT (utility model) AU AZ BA BB BG BR BY BZ CA CH CN CR CU
CZ CZ (utility model) DE DE (utility model) DK DK (utility model) DM DZ
EE EE (utility model) ES FI FI (utility model) GB GD GE GH GM HR HU ID IL
IN IS JP KE KG KP KR KR (utility model) KZ LC LK LR LS LT LU LV MA MD MG
MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SK (utility model) SL TJ
TM TR TT TZ UA UG UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

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Fulltext Word Count: 19031

International Patent Class: G06F-017/60

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... usually includes several subjective, manual steps. For example, forms are manually filled out with a **pen** or ...hospital. As a result, some hospitals even customize information on existing labels with manual printable **pens** to capture information such as pack content, intended location and targeted use.

SUMMARY OF THE...

...art sterilization indicators, b) reduce sterile products inventory hold time, increase the accuracy of information **storage** and provide higher levels of accuracy in data management, c) possess a unified, integrated sterility...

...system for monitoring an article to be subjected to a sterilization process. The system includes **storage** means for storing data on a **storage** medium; a first means for reading sterilization indicator data from a sterilization indicator under scrutiny and storing the sterilization indicator data in the **storage** medium; a second means for receiving inventory data associated with an article to be subjected to a sterilization cycle and storing the inventory data in the **storage** medium; a third means for establishing a relationship between the sterilization indicator data and the...

...showing the container pack of Figure 1 being removed from the sterilizer and placed into **storage** ; Figure 3 is a block diagram of an example of a healthcare facility's sterilization...a sterilization pack 12. Labels are particularly useful in distinguishing packs 12 stored in a **storage** means 30, such as a shelf or cart.

Suitable adhesives for labels for use in...

...present invention includes embodiments where the first or second state is not readable by a **scanning** means or **bar code** reader. For example, the entire bar code could optionally be comprised of a white to ...bar or matrix codes include contact and non-contact fixed beam scanners, moving beam scanners, **handheld** scanners, fixed mount scanners, and laser and solid state imagers such as charge-coupled devices...

...code), and receiving optics including a photosensor for sensing the light reflected off the target **bar code** and **converting** the light energy into an analog electrical signal, the amplitude of which corresponds to the...

...decoding it into data representative of the data that had been encoded into the target **bar code** .

The **scanning** means is preferably one that is capable of reading and

decoding the coded information from...

...code, a small spot of light is passed over the bars and spaces via a **scanning** device. The **bar code** will reflect light back into the scanner in various amounts after passing through a filter...data 91 for the type of indicator under scrutiny may be included in the a **storage** means (e.g. non-volatile memory) of the processor 8 1. The data 92 from ...personal computer 306, an optional mainframe or central computer 304, software, printer 308, and a **scanning** means such as a **bar code** reader 312. The bar code reader preferably utilizes a **hand held** bar code reader 3 1 0 that can be separated from the base unit. The...

...including information: a) provided by manufacturers such as manufacturing dates, lots, regulatory information, shipping requirements, **storage** requirements, use and reuse conditions and contraindications; b) added during distribution such as actual shipping and **storage** profiles, c) added within the health care institution including assignment of patient charge codes, inventory...Figure 30, the graphical user interface including means for selecting from information stored in the **storage** means of the computer. The system also includes printing means (e.g. printer 308, figure...

Claim

... sterilization indicator.

10 A method according to claim 1, wherein the processing means is a **hand held** computer. 1 1. A method according to claim I wherein the step of reading information...A system for monitoring an article to be subjected to a sterilization process comprising:

- a) **storage** means for storing data on a **storage** medium;
- b) first means for reading sterilization indicator data from a sterilization indicator under scrutiny and storing the sterilization indicator data in said **storage** medium;
- c) second means for receiving inventory data associated with an article to be subjected to a sterilization cycle and storing the inventory data in said **storage** medium;
- d) third means for establishing a relationship between said sterilization indicator data and said...

...means comprise an electronic circuit configured to retrieve information from a reference file in said **storage** means and calculate the closest match between the sterilization indicator data and said reference information...

...receive information from said match and store those results in a separate file in said **storage** means.

3 1. A system according to claim 24 wherein the electronic circuit is programmed...

20/3,K/6 (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00385858

MULTICHANNEL AUDIO DISTRIBUTION SYSTEM HAVING PORTABLE RECEIVERS
SYSTEME DE DISTRIBUTION AUDIO MULTICANAL A RECEPTEURS PORTABLES

Sylvia Keys

03-Jun-05 10:15 AM

Patent Applicant/Assignee:

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PHILIPS NORDEN AB,

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Patent and Priority Information (Country, Number, Date):

Patent: WO 9726601 A2 19970724

Application: WO 97IB19 19970116 (PCT/WO IB9700019)

Priority Application: US 96587191 19960116

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

JP AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 13852

**MULTICHANNEL AUDIO DISTRIBUTION SYSTEM HAVING PORTABLE RECEIVERS
SYSTEME DE DISTRIBUTION AUDIO MULTICANAL A RECEPTIONNEURS PORTABLES**

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

Claims

Detailed Description

MULTICHANNEL AUDIO DISTRIBUTION SYSTEM HAVING PORTABLE
RECEIVERS

The present invention relates to an apparatus and method for providing an audio information signal to a **portable** receiver, in which a plurality of receivers are serviced by a single information transmitter system...

...data over channels within a band, or via spread spectrum communications.

Known systems allow the **storage** and retrieval of music on a database server system, which may be accessed through telephone...from a dedicated channel to a common channel with addressed information packets.

Radio frequency uplink **bar code** scanners are known, which **scan** a **bar**

code of an object and uplink the code to a centralized system. Further, systems are known...

...person, having a bar code scanner and which receives information resulting or relating to a **bar code scan** from a central system, through a wireless link. These systems are generally used for digital... 215, incorporated herein by reference, relates to a system for simultaneously interrogating a plurality of **portable** data cards. Operable over a plurality of radio frequencies, the interrogation system sequentially communicates with each **portable** data card as it comes within communication range on a first one of the plurality...

...of the transaction. The interrogation system simultaneously completes each predetermined transaction of reading from and **writing** data to each one of the plurality of cards while communicating with each card on...

...samples or synthesized

music or voice, in a semiconductor memory device. Technologies used for this **storage** include masked ROM, EPROM, EEPROM, multivalued stored charge potentials, and RAM.

The known systems may...switched communication system having a plurality of receivers, wherein each of said receivers comprises a **portable**

housing, a pair of headphones, and a bar code reader. In a preferred embodiment, said...characterized in that the communication transceiver includes a sensor for reading stored information in a **storage** medium proximate to said sensor; and an information transmitter for broadcasting said sensed stored information...invention;

FIG. 3 is a block diagram of a central server having a remote mass

storage system of user of the present invention;

FIG. 4 is a block diagram of a...

...information transmission system, a mobile receiver, and an information-bearing channel selection system.

The mass **storage** system and information retrieval system are referred to

herein as the central system. This central is preferably audio information, and the output is preferably a **portable** audio transducer.

Further, the desired object identification may be provided from each of the mobile...

...mobile receiver to select an appropriate channel.

Thus, a signal may be transmitted from a **portable** receiver to a database system identifying an object in the environment about which audio information...

...which stores the audio information, may be accessed and a corresponding database record transmitted. The **portable** receiver then receives the audio information. The transmitted signal identifying the audio information is preferably...or other recording may be copied onto a different medium, which may be magnetic disk **storage**, such as a 9 GByte disk or RAID (redundant array or inexpensive disks), magnetic tape, WORM (**write** once read many optical disk), recordable CD-ROM, pressed CD or CD-ROM, multiple layer...

...Sony's Digital Video Disk (DVD), blue laser diode optical disk, or other known mass **storage** technologies. Therefore, a preselection process is implemented to winnow possibly hundreds or thousands of gigabytes...

...on a single CD using standard recording format. Using custom formats and/or compression, further **storage** efficiency may be gained. Thus, instead of addressing an entire disk, with a further selection...

...addressing capability of the retrieval system. Therefore, it may be advantageous to employ a different **storage** protocol, for example employing recordable CD-ROM with data compression or possibly a multimedia data **storage** which includes further data relating to the selection, such as price, availability, information about the...

...related albums. In this case, a digital data standard rather than the audio CD data **storage** standard is employed. This also facilitates high speed access to stored data, e.g., quadruple...information, in whatever format, e.g., audio CD, CD-ROM, tape, hard disk, solid state **storage** medium (Flash EPROM, ROM, etc.), or multilayer optical disk, may be transferred at greater than real time to a buffer memory **storage**, such as fast hard drive or RAM, and delivered in real time to the user...

...a buffer.

File 256:TecInfoSource 82-2005/Apr
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File 2:INSPEC 1969-2005/May W4
(c) 2005 Institution of Electrical Engineers
File 35:Dissertation Abs Online 1861-2005/May
(c) 2005 ProQuest Info&Learning
File 65:Inside Conferences 1993-2005/May W5
(c) 2005 BLDSC all rts. reserv.
File 99:Wilson Appl. Sci & Tech Abs 1983-2005/Apr
(c) 2005 The HW Wilson Co.
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
(c) 2002 The Gale Group
File 474:New York Times Abs 1969-2005/Jun 02
(c) 2005 The New York Times
File 475:Wall Street Journal Abs 1973-2005/Jun 02
(c) 2005 The New York Times

Set	Items	Description
S1	15766	(HANDHELD OR HAND()HELD OR PORTABLE? OR PDA OR PALM()PILOT? OR PALM OR WIRELESS) (5N) (DEVICE? OR APPARATUS OR APPLIANC? OR COMPONENT? OR EQUIPMENT)
S2	411	(SCAN OR SCANS OR SCANNING) (5N) (BAR OR PRODUCT) () (CODE OR - CODES OR CODING?)
S3	276155	REMOV? (5N) (MEMORY OR RAM OR DISC OR DISKETTE?) OR STORAGE
S4	91	S1 (5N) (WRITE OR WRITES OR WRITING OR PEN OR PENS)
S5	55	(CONVERT? OR CONVERS?) (5N) (UPC OR UNIVERSAL() PRODUCT() CODE? ? OR COMPUTER() READABLE? OR (BAR OR PRODUCT) () (CODE OR CODES OR CODING?)
S6	151	AU=(SIEGEL, B? OR SIEGEL B? OR MARCHESELLO, T? OR MARCHESE- LLO T?)
S7	7	S1 AND S2
S8	6	S7 NOT PY>2000
S9	655	S1 AND (S3 OR S5)
S10	36	S9 AND (WRITE OR WRITES OR WRITING OR PEN OR PENS)
S11	36	S10 NOT S8
S12	20	S11 NOT PY>2000
S13	64	S2 AND (HANDHELD OR HAND()HELD OR PORTABLE? OR PDA OR PALM- () PILOT? OR PALM OR WIRELESS)
S14	5	S13 AND (S3 OR S5)
S15	5	S14 NOT (S8 OR S12)
S16	13	S2 AND (WRITE OR WRITES OR WRITING OR PEN OR PENS)
S17	13	S16 NOT (S3 OR S5 OR S15)
S18	12	S17 NOT PY>2000
S19	0	S6 AND S1

8/5/1 (Item 1 from file: 256)
DIALOG(R)File 256:TecInfoSource
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00127885 DOCUMENT TYPE: Review

PRODUCT NAMES: XML (837709)

TITLE: Retailers Pilot XML for Price Checks, Inventory Updates
AUTHOR: Sliwa, Carol
SOURCE: Computerworld, v35 n3 p12(1) Jan 15, 2001
ISSN: 0010-4841
HOMEPAGE: <http://www.computerworld.com>

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

Linux, Microsoft Pocket PC and Windows 2000, and Sun Microsystems' Solaris are highlighted in a discussion of the use of eXtensible Markup Language (XML) by retailers to assist merchants in instantly checking prices and updating inventories. For example, if people are starting to queue up at a retailer's checkout counter, a sales representative could use a **wireless handheld device**, approach each customer, and have each pay by credit card. At a recent test by the National Retail Federation (NRF), 360Commerce's application, which provides this ability, was demonstrated. The device **scans the bar code** on the package or allows it to be entered manually. An XML-enabled message checks the server for price and any required product description. Another XML message immediately reduces inventory on the stock-recording or inventory system. According to Jerry Rightmer, CTO for 360Commerce, the NRF's pilot should show how inter-application integration could be deployed by retail enterprises. Another demonstration showed off a Pocket PC's ability to check a price, change it, and print a new shelf label, all from the aisle where the shelf label is posted. Several other vendors showed off price, inventory, and Web servers running on various OSes, including Linux, Windows 2000, and Solaris. They did so to demonstrate that XML-based messages can allow data exchange among many clients (including point-of-sale terminals, Web kiosks, and **handheld devices**) and servers running on disparate OSes.

COMPANY NAME: Vendor Independent (999999)
SPECIAL FEATURE: Charts
DESCRIPTORS: AutoID; Barcoding; E-Commerce; Inventory; Pricing; Retailers; XML
REVISION DATE: 20020830

8/5/2 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC
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6263781

Title: Avoiding the penalty [bar code accuracy]
Author(s): Katarsky, C.
Journal: Business Forms, Labels & Systems vol.37, no.8 p.58, 61-2
Publisher: North American Publishing,
Publication Date: 20 April 1999 Country of Publication: USA
CODEN: BFLSEP ISSN: 1044-758X
SICI: 1044-758X(19990420)37:8L:58:APCA;1-J
Material Identity Number: N573-1999-011

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: Since the late 1980s, retailers have assessed fines and penalties to manufacturers of **bar codes** that do not **scan** properly. These assessments, sometimes referred to as Automatic Cost Recovery (ACR), are used to recover the cost of improperly printed bar codes. To protect itself and its customers from this potential liability, Symbology's Same Day Label service uses the Compliance-Pro HSV from Inspection Systems. The Compliance-Pro HSV inspects each bar code against a known national standard, verifies an eight factors that affect bar code readability and displays results in real time. It is the only system that can verify every bar code for 100 percent accuracy, unlike the spot checks done with **hand-held inspection devices** that are used at many label bureaus. (0 Refs)

Subfile: D

Descriptors: bar codes; business forms; inspection

Identifiers: bar codes; Automatic Cost Recovery; Symbology; Compliance-Pro HSV; Inspection Systems; national standard; readability; accuracy

Class Codes: D3045 (Records management systems); D2140 (Marketing, retailing and distribution); D5030 (Printers and other peripherals)

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8/5/3 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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01211788 INSPEC Abstract Number: C78017737

Title: **Human limitations in using a portable light pen device for manually scanning bar code patterns**

Author(s): Israelski, E.W.; Gruenz, O.O., Jr.

Author Affiliation: American Telephone & Telegraph Co., Basking Ridge, NJ, USA

Conference Title: Proceedings of the Human Factors Society 21st Annual Meeting p.221-5

Editor(s): Neal, A.S.; Palasek, R.F.

Publisher: Human Factors Society, Santa Monica, CA, USA

Publication Date: 1977 Country of Publication: USA xi+568 pp.

Conference Date: 17-20 Oct. 1977 Conference Location: San Francisco, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Applications (A); Experimental (X)

Abstract: In Experiment I a total of 30 subjects used the device to scan patterns of varying position, orientation and width. The strongest main effects on the proportion of labels scanned in error were observed for the independent variable, label width. Experiment II examined learning effects and showed that label scanning accuracy leveled off after 400 or 500 labels. (8 Refs)

Subfile: C

Descriptors: human factors; light pens; pattern recognition

Identifiers: **portable light pen device**; bar code patterns; label width; learning effects; label scanning accuracy

Class Codes: C1270 (Man-machine systems); C5540 (Terminals and graphic displays)

8/5/4 (Item 1 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

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1223153 H.W. WILSON RECORD NUMBER: BAST95018663

Sylvia Keys

03-Jun-05 12:24 PM

Copperweld turns to mobility on the manufacturing floor

Industrial Engineering v. 27 (Mar. '95) p. 46

DOCUMENT TYPE: Feature Article ISSN: 0019-8234 LANGUAGE: English

RECORD STATUS: New record

ABSTRACT: Copperweld in Pittsburgh, a company producing structural steel tubing and copperclad aluminum or steel wire, is using a material tracking system called the Symbol Laser Radio Terminal. This integrated, **hand-held device** combines a non-contact laser bar code scanner, a full-powered computer, and the Symbol Spectrum One radio frequency network. It enables workers to **scan product bar codes** without leaving their workstations and replaces a fixed terminal system that required them to walk with the product some distance to the terminals. The system is being extended for use in other areas of the plant.

DESCRIPTORS: Handheld computers; Radio frequency identification systems;

8/5/5 (Item 1 from file: 474)

DIALOG(R)File 474:New York Times Abs

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07805043 NYT Sequence Number: 514462001006

SPEAKING IN BAR CODE: PERSONAL SCANNERS LINK PRODUCTS DIRECTLY TO CONSUMERS

Kaufman, Leslie

New York Times, Col. 2, Pg. 1, Sec. C

Friday October 6 2000

DOCUMENT TYPE: Newspaper JOURNAL CODE: NYT LANGUAGE: English

RECORD TYPE: Abstract

ABSTRACT:

Consumers will soon be able to do comparison shopping on the spot with introduction of **portable devices** to read both old and new product bar codes; companies like Motorola Inc and General Electric Co are investing hundreds of millions of dollars in bar-code-related technologies on the bet that consumers will want, among other things, to scan products to get information, make lists, connect to the Web and complete purchases; Digital-Convergence Corp, which specializes in putting bar code links to Web sites in media outlets, has teamed up with RadioShack Corp to distribute 10 million personal code scanners to private homes; photos (M)

SPECIAL FEATURES: Photo

COMPANY NAMES: Motorola Inc; General Electric Co; Digital: Convergence Corp; Radio Shack

DESCRIPTORS: Retail Stores and Trade; Computers and the Internet; **Bar Codes ; Scanning** Devices; Retail Stores and Trade

PERSONAL NAMES: Kaufman, Leslie

8/5/6 (Item 1 from file: 475)

DIALOG(R)File 475:Wall Street Journal Abs

(c) 2005 The New York Times. All rts. reserv.

07984776 NYT Sequence Number: 000000980615

MAGIC WANDS?

QUICK, REBECCA

Wall Street Journal, Col. 3, Pg. 8, Sec. R

Monday June 15 1998

DOCUMENT TYPE: Newspaper; Special Sections JOURNAL CODE: WSJ

LANGUAGE: English RECORD TYPE: Abstract

ABSTRACT:

Article in special Technology section looks at **hand - held** scanners, **devices** that enable consumers to **scan bar codes** quickly and upload the information into a computer; the key question is whether shoppers will see a compelling enough benefit to adopt the technology (M)

DESCRIPTORS: COMPUTERS AND INFORMATION SYSTEMS; SCANNING DEVICES

PERSONAL NAMES: QUICK, REBECCA

?

12/5/1 (Item 1 from file: 256)
DIALOG(R)File 256:TecInfoSource
(c) 2005 Info.Sources Inc. All rts. reserv.

01205095 DOCUMENT TYPE: Product

PRODUCT NAME: Helium Pen Thumbdrive (205095)

Element Computer (751821)
1110 South Ave
Staten Island, NY 10314 United States

RECORD TYPE: Directory

CONTACT: Sales Department

Element Computer's Helium Pen Thumbdrive is a **portable**, digital **storage device** that provides users with USB connectivity features. The product also incorporates a standard **writing pen**. Drag-and-drop features streamline the exchange of data between **pen** and computers. Helium Pen Thumbdrive can store documents, presentations, audio files, videos, and other content. It provides users with 64MB of **storage** space.

DESCRIPTORS: Computer Equipment; Memory Management; Mobile Computing

HARDWARE: Apple Macintosh; IBM PC & Compatibles

OPERATING SYSTEM: MacOS X; Windows

PROGRAM LANGUAGES: Not Available

TYPE OF PRODUCT: Micro

POTENTIAL USERS: Mobile Computing, Portable Storage

PRICE: Available upon request

REVISION DATE: 20040718

12/5/2 (Item 2 from file: 256)
DIALOG(R)File 256:TecInfoSource
(c) 2005 Info.Sources Inc. All rts. reserv.

00144386 DOCUMENT TYPE: Review

PRODUCT NAMES: Palm OS (608751); Database Management (830025)

TITLE: Direct to Palm: Sometimes, when you need that extra degree of...

AUTHOR: Grehan, Rick

SOURCE: Java Pro, v6 n11 p46(4) Nov 2002

ISSN: 1096-4495

HOME PAGE: <http://www.java-pro.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

A PalmOS database is the **Palm device**'s equivalent to a file. In the context of the PalmOS, the phrase 'database' does not refer to anything as complex as what it means on a desktop system. A Palm database incorporates fields and data structures that do not have a straightforward counterpart on a desktop OS file. Those fields and structures can be accessed through the Palm OS API, which is the main reason one would want to take a native access approach. From a general perspective, a PalmOS database is a set of variable length records, where a record is a string of contiguous bytes.

There is no concept of a directory or subdirectory. All data stored on the PalmOS resides in primary memory, and there are no disk drives. As a result, variable length data structures are easy to implement, as opposed to files stored on disk drives, which allocate **storage** in fixed size sectors. PalmOS provides routines for locating records in a database via the record's index, or position in the database. Each record has special ID values associated with it as well, including a localID, which points to the **storage** heap, and the uniqueID, a field that uniquely identifies the record in the database. Jbed is a development and runtime environment for PalmOS, which is useful in that the application's code is compiled. Jbed includes a set of Connected Limited Device Configuration classes, making it possible to **write** MIDP applications.

COMPANY NAME: PalmSource Inc (714401); Vendor Independent (999999)
SPECIAL FEATURE: Charts
DESCRIPTORS: Database Management; Handhelds & Palmtops; Palm; Palm OS
REVISION DATE: 20030430

12/5/3 (Item 3 from file: 256)
DIALOG(R)File 256:TecInfoSource
(c) 2005 Info.Sources Inc. All rts. reserv.

00131133 DOCUMENT TYPE: Review

PRODUCT NAMES: Adobe Acrobat eBook Reader (032425); CoolType (797227);
Palm OS (608751); Microsoft Reader (791016); ClearType (780651)

TITLE: The Real Story: The commotion on the e-book playground resembles...
AUTHOR: Blessing, Rose
SOURCE: Internet Publishing Magazine, v1 n2 p32(4) Apr 2001

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

Adobe Systems' Adobe Acrobat eBook Reader Plus and CoolType, Palm's Palm OS, and Microsoft Reader and ClearType are highlighted in a discussion of the solidification of the e-book market. Industry heavyweights now seek their share of a market by one estimate expected to be worth as much as \$100 billion by 2005. Other estimates are \$2.3 billion and \$251 million. Microsoft Reader uses ClearType technology, which enhances horizontal screen resolution by 300 percent on LCDs used by most personal digital assistants (PDAs). CoolType is used in the Adobe Acrobat eBook Reader. Current users of personal digital assistants (PDAs) from Palm, Sony, and Handspring Visor run the Palm OS and cannot run either Microsoft or Adobe reader software. Palm OS users, however, can use e-books from Peanut Press and other online distributors. Customers who do not like to read from computers or PDAs can use new **handheld** e-book **devices**, including the ones from Gemstar, which acquired NuvoMedia and SoftBook. Franklin Electronic System also provides smaller devices that cost less. Many companies are spending large amounts on technologies meant to improve battery life, **storage** abilities, size, flexibility, and price points for reading devices. One device is Microsoft's Tablet PC, which is planned for release in 2002 and could become not only an e- **pen** -based input device, but also a lightweight e-book reading device. Activities by Random House, Simon & Schuster, and Time Warner are also described.

COMPANY NAME: Adobe Systems Inc (394173); PalmSource Inc (714401);
Microsoft Corp (112127)

SPECIAL FEATURE: Charts Screen Layouts
DESCRIPTORS: E-Books; Handhelds & Palmtops; Mobile Computing; Palm; Palm
OS; Publishing
REVISION DATE: 20021230

12/5/4 (Item 4 from file: 256)
DIALOG(R)File 256:TecInfoSource
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00116697 DOCUMENT TYPE: Review

PRODUCT NAMES: CalliGrapher (671665); Allegro (749788); smARTwriter
Windows CE (671033); ARTrecognition (749796); Graffiti (526711)

TITLE: Handwriting Recognition
AUTHOR: Forman, David
SOURCE: LAPTOP Buyer's Guide & Handbook, v18 n9 p50(6) May 1999
ISSN: 2089-036X
HOMEPAGE: <http://www.bedfordmags.com>

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

Cross Pen Computing Group's CrossPad XT, ParaGraph's (now Silicon Graphics') CalliGrapher, Fonix's Allegro, and Advanced Recognition Technologies' SMARTwriter CE Plus and ARTrecognition are highlighted handwriting recognition products (HWRs). Handwriting recognition is available in online and offline modes. Offline HWR includes scanning of written notes and use of optical character recognition (OCR). Online HWR allows users to work dynamically on a PalmPilot or other **handheld device**. HWR uses fuzzy logic rather than case-based reasoning because fuzzy logic handles ambiguity well, while neural networks are used because they are software that can learn. CrossPad XP provides users with a 6-inch by 9-inch spiral notepad with a special **pen** and clipboard that digitize **writing** for **storage** as a graphic image file. The user can employ included software from IBM to translate handwriting to editable text. Allegro is an HWR that allows users to **write** using Allegro's proprietary, redefined characters. Allegro is available for product developers who want to include HWR in their products. SmARTwriter CE Plus and Calligrapher can recognize cursive handwriting. CalliGrapher has a 65,000-word, built-in dictionary, and smARTwriter CE plus software is preinstalled in the Philips Nino palm-size PC. The latter is also available in the ARTrecognition retail software bundle for Windows CE-based palm-sized PCs.

COMPANY NAME: Silicon Graphics Inc (435201); Fonix Corp (655945);
Advanced Recognition Technologies Inc (614033); PalmSource Inc
(714401)

SPECIAL FEATURE: Charts Photographs
DESCRIPTORS: Fuzzy Logic; Handhelds & Palmtops; Handwriting Recognition;
Laptops; Mobile Computing; Mouse Alternatives; OCR; Palm; Palm OS; **Pen**
Software; User Interfaces; Windows CE
REVISION DATE: 20030330

12/5/5 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC
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6312014 INSPEC Abstract Number: B1999-09-2860F-003

Title: Features and applications of FeRAM

Author(s): Toyoshima, H.; Kobatake, H.

Journal: NEC Research and Development vol.40, no.2 p.206-9

Publisher: NEC Creative,

Publication Date: April 1999 Country of Publication: Japan

CODEN: NECRAU ISSN: 0547-051X

SICI: 0547-051X(199904)40:2L:206:FAF;1-P

Material Identity Number: N043-1999-003

Language: English Document Type: Journal Paper (JP)

Treatment: General, Review (G); Practical (P)

Abstract: Ferroelectric random access memory (FeRAM) offers nonvolatile data **storage**, low-voltage operation, and fast **write** speeds. The fundamental FeRAM structure and operations are reviewed. The features of FeRAM are compared with those of conventional memories and shown to be attractive for many types of **portable** electronic **devices**. (14 Refs)

Subfile: B

Descriptors: ferroelectric **storage**; random-access **storage**; reviews

Identifiers: FeRAM; ferroelectric random access memory; nonvolatile data **storage**; low-voltage operation; fast **write** speeds; review; **portable** electronic **devices**

Class Codes: B2860F (Ferroelectric devices); B1265D (Memory circuits)

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12/5/6 (Item 2 from file: 2)

DIALOG(R) File 2:INSPEC

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6253860 INSPEC Abstract Number: B1999-07-1265D-001, C1999-07-5320Z-001

Title: FRAM-a non-volatile ferroelectric RAM

Author(s): Zannoli, S.

Journal: Elettronica Oggi no.248 p.121-5

Publisher: Gruppo Editoriale Jackson,

Publication Date: Jan. 1998 Country of Publication: Italy

CODEN: ELOGDA ISSN: 0391-6391

SICI: 0391-6391(199801)248L:121:FVF;1-T

Material Identity Number: E252-1998-002

Language: Italian Document Type: Journal Paper (JP)

Treatment: Practical (P); Product Review (R)

Abstract: The author describes the 3 V 256 kbit Hm71V832 device which combines a RAM high speed read/ **write** facility with a non-volatile memory. He presents block diagrams and operating characteristics of the chip which incorporates a Jedec standard 21-C superset for software data protection. Further protection may be provided for any of the 8 4k blocks. Applications are primarily in **portable apparatus** such as cellular telephones. (0 Refs)

Subfile: B C

Descriptors: ferroelectric **storage**; integrated memory circuits; random-access **storage**; security of data

Identifiers: FRAM; nonvolatile ferroelectric RAM; Hm71V832 device; high speed read/ **write** facility; nonvolatile memory; operating characteristics; Jedec standard 21-C superset; software data protection; **portable apparatus** applications; cellular telephones applications; 256 kbit; 3 V

Class Codes: B1265D (Memory circuits); B2860F (Ferroelectric devices); C5320Z (Other digital storage); C6130S (Data security)

Numerical Indexing: storage capacity 2.62E+05 bit; voltage 3.0E+00 V

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12/5/7 (Item 3 from file: 2)
 DIALOG(R) File 2:INSPEC
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5782488 INSPEC Abstract Number: B9802-7230G-010, C9802-6130D-002
Title: Compact imaging apparatus for a pen -shaped hand - held scanner
Author(s): Haga, H.; Fujieda, I.; Okumura, F.
Author Affiliation: Functional Devices Res. Labs., NEC Corp., Kawasaki, Japan
Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA) vol.3019 p.168-73
Publisher: SPIE-Int. Soc. Opt. Eng,
Publication Date: 1997 **Country of Publication:** USA
CODEN: PSISDG **ISSN:** 0277-786X
SICI: 0277-786X(1997)3019L:168:CIAS;1-I
Material Identity Number: C574-97117
U.S. Copyright Clearance Center Code: 0 8194 2430 7/97/\$10.00
Conference Title: Solid State Sensor Arrays: Development and Applications
Conference Sponsor: SPIE; Soc. Imaging Sci. & Technol
Conference Date: 10-11 Feb. 1997 **Conference Location:** San Jose, CA, USA
Language: English **Document Type:** Conference Paper (PA); Journal Paper (JP)
Treatment: Applications (A); Practical (P); Experimental (X)
Abstract: A compact imaging system is proposed for electronic document input. In this configuration, a linear image sensor formed on a glass substrate is coupled with an optical fiber array plate (FAP). There are multiple apertures in each photodiode of this sensor. Light from a linear light emitting diode (LED) array is transmitted through the glass, the apertures and the fiber successively and illuminates a document. The scattered light comes back in the same fiber and is detected by the sensing part of the photodiode. Experiments with a 200 dpi sensor show good spatial resolution (CTF=0.5 at 4 lp/mm). With a white paper illuminated at 100 mW/cm², a signal yield of 0.75 pC is obtained with 1 msec storage time. The depth of field is 70 µm. A prototype hand-held scanner has been developed by housing this imaging system in a 10 mm-wide pen-shaped container. It reads a 11 cm-wide document at 200 dpi resolution with maximum scanning speed of 12 cm/sec. (3 Refs)
Subfile: B C
Descriptors: document image processing; fibre optic sensors; image scanners; image sensors; light emitting diodes; photodiodes
Identifiers: imaging apparatus; pen-shaped hand-held scanner; compact imaging system; electronic document input; linear image sensor; glass substrate; optical fiber array plate; multiple photodiode apertures; linear light emitting diode array; document illumination; scattered light; photodiode; spatial resolution; white paper illumination; signal yield; storage time; depth of field; hand-held scanner; imaging system; pen-shaped container; scanning speed; 1 ms; 70 micron; 10 mm; 11 cm; 12 cm/s
Class Codes: B7230G (Image sensors); B7230E (Fibre optic sensors); B4250 (Photoelectric devices); B4260D (Light emitting diodes); C6130D (Document processing techniques); C5260B (Computer vision and image processing techniques); C5530 (Pattern recognition and computer vision equipment)
Numerical Indexing: time 1.0E-03 s; depth 7.0E-05 m; size 1.0E-02 m; size 1.1E-01 m; velocity 1.2E-01 m/s
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12/5/8 (Item 4 from file: 2)
 DIALOG(R) File 2:INSPEC

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5753156 INSPEC Abstract Number: C9712-3390C-057

Title: Intelligent data carrier system for cooperative behaviors emerged among collective robots

Author(s): Fujii, T.; Asama, H.; Fujita, T.; Kaetsu, H.; Matsumoto, A.; Endo, I.

Author Affiliation: RIKEN, Inst. of Phys. & Chem. Res., Saitama, Japan

Conference Title: 1997 IEEE International Conference on Systems, Man, and Cybernetics. Computational Cybernetics and Simulation (Cat. No.97CH36088-5) Part vol.1 p.299-304 vol.1

Publisher: IEEE, New York, NY, USA

Publication Date: 1997 Country of Publication: USA 5 vol. 4535 pp.

ISBN: 0 7803 4053 1 Material Identity Number: XX97-02536

U.S. Copyright Clearance Center Code: 0 7803 4053 1/97/\$10.00

Conference Title: 1997 IEEE International Conference on Systems, Man, and Cybernetics. Computational Cybernetics and Simulation

Conference Sponsor: Syst., Man, & Cybernetics Soc. IEEE

Conference Date: 12-15 Oct. 1997 Conference Location: Orlando, FL, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Experimental (X)

Abstract: This paper introduces a system, including a new device named "intelligent data carrier" (IDC), for emergent cooperative behaviors in a collective robot system. The IDC is an immobile but **portable device** (data carrier) for information **storage** and management, and is developed to make the multi-robot system more flexible and robust against complex environmental conditions by reducing the amount of global communication for mutual exchange of information which is useful locally in a limited area. A robot can place an IDC unit at an arbitrary location in its working environment and **write** locally useful knowledge into the unit. Other robots can, for example, share the knowledge which should indicate the existence of specific instruments, objects or environmental topographies, e.g., dead ends, drop-offs, steps, etc., by reading from the placed IDC units. In this paper, some application examples are introduced to show that the IDCs can be effectively used in the tasks appearing in the practical missions of collective robot systems. (3 Refs)

Subfile: C

Descriptors: cooperative systems; data communication; data communication equipment; mobile robots; path planning; protocols

Identifiers: intelligent data carrier system; collective robots; emergent cooperative behaviors; information **storage** and management; multi-robot system; global communication; mutual information exchange; environmental topographies

Class Codes: C3390C (Mobile robots); C5640 (Protocols); C7420 (Control engineering computing); C5690 (Other data communication equipment and techniques)

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12/5/9 (Item 5 from file: 2)

DIALOG(R)File 2:INSPEC

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5514213 INSPEC Abstract Number: C9704-3390C-096

Title: Knowledge sharing among multiple autonomous mobile robots through indirect communication using intelligent data carriers

Author(s): Fujii, T.; Asama, H.; Fujita, T.; Asakawa, Y.; Kaetsu, H.; Matsumoto, A.; Endo, I.

Author Affiliation: RIKEN, Inst. of Phys. & Chem. Res., Saitama, Japan

Conference Title: Proceedings of the 1996 IEEE/RSJ International

Conference on Intelligent Robots and Systems. IROS 96. Robotic Intelligence Interacting with Dynamic Worlds (Cat. No.96CH35908) Part vol.3 p. 1466-71 vol.3

Publisher: IEEE, New York, NY, USA

Publication Date: 1996 Country of Publication: USA 3 vol. xxxv+1746 pp.

ISBN: 0 7803 3213 X Material Identity Number: XX97-00241

U.S. Copyright Clearance Center Code: 0 7803 3213 X/96/\$5.00

Conference Title: Proceedings of IEEE/RSJ International Conference on Intelligent Robots and Systems. IROS '96

Conference Sponsor: IEEE Ind. Electron. Soc.; IEEE Robotics & Autom. Soc.; Robotics Soc. Japan; Soc. Instrum. & Control Eng.; New Technol. Found

Conference Date: 4-8 Nov. 1996 Conference Location: Osaka, Japan

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: This paper proposes a new strategy for knowledge sharing among multiple autonomous mobile robots using newly developed intelligent data carriers (IDCs) to make the multi-robot system more flexible and robust against complex environmental conditions and, to reduce the amount of global communication for mutual exchange of information which is useful locally in a limited area. The IDC is an immobile but **portable device** (data carrier) for information **storage** and management with a unique mushroom-like structure to be easily handled by a forklift mechanism which can be mounted on actual mobile robots. A robot can place a unit at a specific location in its working environment and **write** locally relevant knowledge into the unit. Other robots can share the knowledge which should indicate the existence of specific instruments, objects or topographies, e.g., dead ends, drop-offs, steps, etc., by reading from the placed IDC units. The handling method of the IDC unit is examined through the experiment using an omni-directional mobile robot. It is shown that the robot succeeded in placing the unit at an appropriate location to share the information indicating that a dead end exists. (8 Refs)

Subfile: C

Descriptors: cooperative systems; data communication; intelligent control ; mobile robots

Identifiers: knowledge sharing; multiple autonomous mobile robots; indirect communication; intelligent data carriers; mutual information exchange; locally relevant knowledge; omni-directional mobile robot

Class Codes: C3390C (Mobile robots); C1230 (Artificial intelligence); C6170 (Expert systems)

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12/5/10 (Item 6 from file: 2)

DIALOG(R) File 2:INSPEC

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4969095 INSPEC Abstract Number: B9507-2550B-092

Title: **Application of advanced ion implantation techniques to Flash memories**

Author(s): Cappelletti, P.; Fratin, L.; Ravazzi, L.

Author Affiliation: SGS-Thomson Microelectron., Agrate, Italy

Journal: Nuclear Instruments & Methods in Physics Research, Section B (Beam Interactions with Materials and Atoms) vol.B96, no.1-2 p.405-10

Publication Date: March 1995 Country of Publication: Netherlands

CODEN: NIMBEU ISSN: 0168-583X

U.S. Copyright Clearance Center Code: 0168-583X/95/\$09.50

Conference Title: Tenth International Conference on Ion Implantation Technology

Conference Sponsor: Alcatel; Applied Mater.; Atomika Analysetechnik GmbH; et al

Conference Date: 13-17 June 1994 Conference Location: Catania, Italy
Language: English Document Type: Conference Paper (PA); Journal Paper (JP)

Treatment: Experimental (X)

Abstract: Flash memories have become the most important of non-volatile memories because of their potential application as mass **storage devices** in **portable** computers. The evolution of Flash memory technology is oriented to both reducing cell size and up-grading product functions. Significant modifications of the structure and the operating modes of memory cell as well as innovative CMOS process architectures are needed for next generations of Flash memories. An important contribution to the evolution of Flash technology comes from the implementation of advanced ion implantation techniques; the role of large angle tilted implantation and of high energy implantation is illustrated showing most relevant applications in relation with the improvements of device structure and performance. (9 Refs)

Subfile: B

Descriptors: CMOS memory circuits; ion implantation; memory architecture

Identifiers: ion implantation; Flash memory; cell size reduction; operating modes; CMOS process architecture; next generation nonvolatile memories; tilted implantation; computerized simulation; **writing schemes**; punch through characteristics

Class Codes: B2550B (Semiconductor doping); B1265D (Memory circuits); B2570D (CMOS integrated circuits)

Copyright 1995, FIZ Karlsruhe

12/5/11 (Item 7 from file: 2)

DIALOG(R)File 2:INSPEC

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4648487 INSPEC Abstract Number: A9410-8630F-033, B9405-8410E-048

Title: Lithium-ion coin cells for electronic applications

Author(s): Megahed, S.A.; Ebner, W.B.

Author Affiliation: Rayovac Corp., Madison, WI, USA
p.129-34

Publisher: IEEE, New York, NY, USA

Publication Date: 1994 Country of Publication: USA xi+196 pp.

ISBN: 0 7803 1795 5

Conference Title: Proceedings of 9th Annual Battery Conference on Applications and Advances

Conference Sponsor: IEEE

Conference Date: 11-13 Jan. 1994 Conference Location: Long Beach, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: Most **portable devices**, such as notebook, subnotebook, palmtop, and **pen** computers, telephones and camcorders, utilize two or three types of batteries. A cylindrical nickel-cadmium or a nickel-metal hydride battery generally serves as the main power source, and a coin lithium battery (primary or secondary) or a button nickel-cadmium battery provides power for memory back-up, real time clock and bridge (auxiliary) applications. The authors found that a lithium-ion coin cell can replace the lithium and nickel-cadmium batteries for memory back-up, real time clock and the bridge function (when available). The lithium-ion coin cell will have excellent cycle life, high rate capability, good **storage** characteristics and better reliability at a lower cost to the user. This paper discusses the performance characteristics of lithium-ion coin cells for these emerging electronic applications. (2 Refs)

Subfile: A B

Descriptors: lithium; power supplies to apparatus; secondary cells

Identifiers: lithium-ion coin cells; electronic applications; **portable devices** ; **pen** computers; telephones; camcorders; notebook computers; subnotebook computers; palmtop computers; memory back-up; real time clock; bridge function; cycle life; high rate capability; good **storage** characteristics; rechargeable batteries; Li

Class Codes: A8630F (Secondary cells); B8410E (Secondary cells)

Chemical Indexing:

Li int - Li el (Elements - 1)

12/5/12 (Item 8 from file: 2)

DIALOG(R)File 2:INSPEC

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03740208 INSPEC Abstract Number: B90068635, C90063751

Title: Static 64-kbit CMOS memory U6264 DG

Author(s): Hofrichter, W.

Journal: Radio Fernsehen Elektronik vol.39, no.5 p.283-6

Publication Date: 1990 Country of Publication: East Germany

CODEN: RFELB6 ISSN: 0033-7900

Language: German Document Type: Journal Paper (JP)

Treatment: Applications (A); Practical (P); Product Review (R)

Abstract: The U6264 is a RAM IC arranged as 8 K*8 bits and intended for data processing and automation, especially in battery-powered **portable equipment** where its low power consumption is an advantage. The author summarises the main properties of the U6264, and the manner of its manufacture, describing its various modes (read, **write** , standby). Tables and graphs showing the U6264's behaviour and operating conditions are given and briefly commented on. The U6264's applications are also considered briefly. (0 Refs)

Subfile: B C

Descriptors: CMOS integrated circuits; integrated memory circuits; random-access **storage**

Identifiers: SRAM; CMOS memory; U6264 DG; RAM IC; battery-powered **portable equipment** ; low power consumption; 64 kbit

Class Codes: B1265D (Memory circuits); B2570D (CMOS integrated circuits); C5320G (Semiconductor storage)

Numerical Indexing: storage capacity 6.6E+04 bit

12/5/13 (Item 9 from file: 2)

DIALOG(R)File 2:INSPEC

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03414578 INSPEC Abstract Number: B89047560, C89042815

Title: Decentralized data capture with memory cards

Author(s): Bergmann, H.

Journal: Radio Fernsehen Elektronik vol.38, no.2 p.78

Publication Date: 1989 Country of Publication: East Germany

CODEN: RFELB6 ISSN: 0033-7900

Language: German Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: Plastic cards of the usual credit card size of Japanese origin (called Bee Card) can store up to 4 Mbit. Versions differ from ROM to RAM type **storage** . The system includes special **portable** combined read/ **write devices** , which are connected to a PC. Applications vary from purely personal (medical and other personal data) to remote data entry by using the card in conjunction with a **portable device** with numeric keyboard, LCD and bar-code scanner. (0 Refs)

Subfile: B C

Descriptors: data acquisition; random-access **storage** ; read-only **storage** ; smart cards

Identifiers: plastic card; credit card size card; decentralised data capture; memory cards; Bee Card; ROM; RAM; **portable** combined read/ write **devices** ; PC; remote data entry; numeric keyboard; LCD; bar-code scanner; 4 Mbit

Class Codes: B1265D (Memory circuits); C5320G (Semiconductor storage); C7100 (Business and administration)

Numerical Indexing: storage capacity 4.2E+06 bit

12/5/14 (Item 10 from file: 2)

DIALOG(R)File 2:INSPEC

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02831787 INSPEC Abstract Number: C87018920

Title: Designing a control system based on optimum operation at minimum cost for prototype systems

Author(s): Murray, T.M., Jr.

Author Affiliation: Dept. of Electr. Eng., Louisville Univ., KY, USA

Conference Title: Conference Proceedings IEEE SOUTHEASTCON '86 (Cat. No.86CH2306-9) p.104-6

Publisher: IEEE, New York, NY, USA

Publication Date: 1986 Country of Publication: USA 317 pp.

U.S. Copyright Clearance Center Code: CH2306-9/86/0000-0104\$01.00

Conference Sponsor: IEEE

Conference Date: 23-25 March 1986 Conference Location: Richmond, VA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: General, Review (G)

Abstract: A systematic approach to the design and development of microprocessor-based control systems for small, less-than-100 I/O's, prototype process or production systems. As with any control system, the control problem should be defined in **writing** , the control strategy algorithm determined, and the I/O's selected. Only after these steps is a microprocessor-based control system selected. Time permitting, a considerable amount of money can be saved by building the I/O interfaces. It is imperative that adequate **portable** development and support **equipment** , a smart terminal, **storage** and EPROM programmer be available in the field. This is critical for checkout, diagnostics program changes, and overall system development. (0 Refs)

Subfile: C

Descriptors: computerised control; microcomputer applications

Identifiers: optimum operation; minimum cost; prototype systems; systematic approach; microprocessor-based control systems; control strategy algorithm

Class Codes: C7420 (Control engineering)

12/5/15 (Item 11 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

01850421 INSPEC Abstract Number: B82026803, C82018405

Title: Simple tester for 16 and 64K dynamic RAMs

Author(s): Kramer, D.J.

Journal: Electronics Test vol.4, no.11 p.26, 29

Publication Date: Nov. 1981 Country of Publication: USA

CODEN: ELT EDT ISSN: 0164-9620

Language: English Document Type: Journal Paper (JP)

Treatment: Applications (A); Practical (P)

Abstract: This tester provides incoming inspectors, computer maintenance people and field technicians with a portable means of checking the functionality of 16 and 64K dynamic RAMs. The entire test sequence consists of four great cycles, each composed of 65536 small cycles (16384 for a 16K RAM). During these cycles, the tester checks the RAM for: bit sites which will not **write** a one or zero; malfunctioning address inputs and buffers; open or shorted CAS, RAS, WE, DI, DO and VXX circuits. Wired as a crystal-controlled oscillator, the MC4024 generates a 6 MHz square wave. This clock signal feeds to 3 flip-flops which form a twisted-tail ring counter. (0 Refs)

Subfile: B C

Descriptors: integrated circuit testing; integrated memory circuits;

random-access **storage** ; test equipment

Identifiers: **portable** test **equipment** ; 16K dynamic RAMs; random-access **storage** ; 64K dynamic RAMs; MC4024

Class Codes: B1265D (Memory circuits); B7210X (Other instrumentation and measurement systems); C5320G (Semiconductor storage)

12/5/16 (Item 1 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

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01615736 ORDER NO: AADMQ-22632

DESIGN AND IMPLEMENTATION OF AN OBJECT DATABASE FOR INJURY SURVEILLANCE

Author: MANAS, ADRIANA

Degree: M.SC.

Year: 1997

Corporate Source/Institution: UNIVERSITY OF ALBERTA (CANADA) (0351)

Adviser: M. TAMER OZSU

Source: VOLUME 36/02 of MASTERS ABSTRACTS.

PAGE 293. 166 PAGES

Descriptors: INFORMATION SCIENCE ; HEALTH SCIENCES, PUBLIC HEALTH ;
COMPUTER SCIENCE

Descriptor Codes: 0723; 0573; 0984

ISBN: 0-612-22632-8

Injury is one of the most under-recognized public health problems. Reduction of injury is more likely to occur if data are available on causative factors, circumstances and populations at risk. This requires timely collection of data, their organization to enable cross-referencing and access, and the dissemination of these data in a way that is useful to health providers and researchers. The Dynamic Injury Data Project (DIDP) addresses these issues as a collaborative effort between the Department of Public Health (Faculty of Medicine and Oral Health), the Department of Computing Science (Faculty of Science) and the Faculty of Business. The objective of the project is to develop a system that will capture and link real-time data from emergency medical services, hospital, police, fire, utilities and administrative sources to facilitate studies in trauma outcomes research, medical quality improvement and injury prevention strategies.

There are essentially two components to the system being developed. The Data Collection **component** utilizes **pen**-based **hand - held** computers to be employed by the emergency medical services and hospital personnel to capture the most important patient-related information encompassing all pre-hospital, hospital and rehabilitative care. The Database Server component of the system stores the collected data and allows sophisticated analysis of the data. This thesis deals with the

analysis, design and implementation of an object oriented database server for the DIDP. The server provides persistent **storage** of the data, ensure its integrity, and provide a mechanism for the applications to interact with the data.

12/5/17 (Item 1 from file: 99)
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs
(c) 2005 The HW Wilson Co. All rts. reserv.

1231543 H.W. WILSON RECORD NUMBER: BAST95027122

Pen computers simplify projects

Thierrin, Raymond;

American City & County v. 110 (May '95) p. 12

DOCUMENT TYPE: Feature Article ISSN: 0149-337X LANGUAGE: English

RECORD STATUS: New record

ABSTRACT: New digital collection equipment makes the data collection and management process easier on municipal projects. The most exciting new developments are in **pen** computers, which are **hand - held devices** that use a stylus to enter data. Information can be written directly onto the computer screen, and lettering is changed into text through handwriting recognition. Software **converts** the information into a **computer - readable** format and stores it as a data record.

DESCRIPTORS: Municipal engineering databases; **Pen** -based computers;

12/5/18 (Item 2 from file: 99)
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs
(c) 2005 The HW Wilson Co. All rts. reserv.

1131657 H.W. WILSON RECORD NUMBER: BAST94000201

Turmoil in pen operating systems

Davis, Dwight B;

Datamation v. 39 (Dec. 15 '93) p. 20-2+

DOCUMENT TYPE: Feature Article ISSN: 0011-6963 LANGUAGE: English

RECORD STATUS: New record

ABSTRACT: A cover story examines **pen** operating systems. The **pen** computer industry does not currently offer a single operating system that gives IS managers a full slate of applications, development environments, and enterprise interoperability across a full range of **handheld mobile devices**. Over the next year, however, major companies like Apple Computer, AT&T, IBM, and Microsoft, along with a number of smaller companies, will introduce new products to fill this void, each with a somewhat different emphasis. IS managers will have the easiest time choosing a system when the hardware platform is limited to the convertibles: notebook or subnotebooks that also have **pen** capabilities. They will have a harder time when matching a **pen** -capable operating system with the emerging category of **handheld** -computing **devices**, which have small screens, limited **storage**, battery-life constraints, and usually no keyboard. The offerings from several companies are compared.

DESCRIPTORS: **Pen** -based computers; Computer operating systems;

12/5/19 (Item 1 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
(c) 2002 The Gale Group. All rts. reserv.

05638133

IT executives plump for portables in 1993

UK - GROWING USE OF PORTABLES BY IT EXECUTIVES

Computer Weekly (CRW) 7 January 1993 p13

ISSN: 0010-4787

UK: Nearly 40% of the 160 DP managers surveyed by Business Research Group (BRG) (US) are already using portable computers or are planning to do so by the end of 1992 or early 1993. Of these, 12% will use a **handheld device**, 27% will use a notebook and 75% will use a laptop, with 41% of potential laptop users coming from the manufacturing sector. The BRG survey reveals that the most important buying criterion is **storage**, followed by price, size or weight and functions available. As well as recognising the various types of portable computer available, users are aware of **pen**-based touch screens and keyboards. Article includes diagram showing the main buying criteria for PCs.**

PRODUCT: Microcomputers (3573MI); Laptop Computers (3573LC);

EVENT: NO. OF USERS (65);

COUNTRY: United Kingdom (4UK); OECD Europe (415); European Economic Community Countries (419); NATO Countries (420); South East Asia Treaty Organisation (913);

12/5/20 (Item 2 from file: 583)

DIALOG(R) File 583:Gale Group Globalbase(TM)

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05500305

Toshiba in technology deal with US group

US - TOSHIBA IN TECHNOLOGY DEAL WITH NATIONAL SEMICONDUCTOR

Financial Times (C) 1992 (FT) 15 December 1992 p23

TOSHIBA, the Japanese electronics company, and National Semiconductor, of the US, yesterday announced an alliance aimed at developing a market for Toshiba's proprietary technology for flash memory devices, semiconductors which retain information when the power is switched off, much like hard disk drives. Flash memory is one of the hottest products in the electronics industry and is expected eventually to replace disk drives and other magnetic recording **devices** in a wide range of **portable electronic equipment**. Sales have been dominated by a technology developed by Intel of the US, which dominates the world's microprocessor market. Although Toshiba is credited with inventing flash memory, its design of flash memory has proved more difficult to develop into useable products. The company earlier this year formed an alliance with IBM, in which Toshiba would share its flash memory technology, while IBM would share technology for a controller device allowing high-speed read and **write** functions. Toshiba and National Semiconductor said yesterday the Toshiba technology was most suitable to replace hard and floppy disk drives in computers and workstations.*

Copyright: Financial Times Ltd 1992

COMPANY: TOSHIBA; NATIONAL SEMICONDUCTOR

PRODUCT: Semiconductor Devices (3674); Electronic Memories (3573EM);

Storage Devices (3573SD);

EVENT: MANUFACTURING/LICENSING AGREEMENTS (38); NEW PRODUCT DEVELOPMENT (33);

COUNTRY: Japan (9JPN); United States (1USA); OECD Pacific (915); North American Countries (111); NATO Countries (420); South East Asia Treaty Organisation (913);

Sylvia Keys

03-Jun-05 12:26 PM

15/5/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

8366865 INSPEC Abstract Number: C2005-05-7480-214

Title: We are all about flexibility [PFSweb - third party logistics provider]

Author(s): Forger, G.

Journal: Modern Materials Handling vol.60, no.1 p.71

Publisher: Cahners Publishing,

Publication Date: Jan. 2005 Country of Publication: USA

CODEN: MMHHA2 ISSN: 0026-8038

SICI: 0026-8038(200501)60:1L.71:AFPT;1-S

Material Identity Number: M095-2005-002

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: Until recently, PFSweb filled orders in a highly linear fashion. Today, third-party logistics provider PFSweb uses a put-to-light cart to fill multiple orders for multiple clients at a time. To begin picking, the server downloads the orders to the cart's **wireless** terminal, which directs the worker where to push the cart first. Using a **wireless bar code** scanner, the worker **scans** both the **storage** location's **bar code** and that of the stock-keeping unit (SKU). The terminal then illuminates the lights identifying where items can be placed. The worker simply pushes each light to display the number of items of that SKU to be placed at that location on the cart. When all the lights have been extinguished, the **wireless** terminal tells the worker where to push the cart next. These carts fit the needs of a 3PL extremely well.

Subfile: C E

Descriptors: logistics; mark scanning equipment; materials handling equipment

Identifiers: PFSweb; third party logistics provider; order processing; multiple orders; multiple clients; **wireless** terminal; **wireless** bar code scanner; stock keeping unit

Class Codes: C7480 (Production engineering computing); C5590 (Other computer peripheral equipment)

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15/5/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

4801588

Title: Swedish defense maps inventory strategy

Author(s): Beale, S.R.

Journal: ID Systems European Edition vol.2, no.5 p.13-17, 33

Publication Date: Oct. 1994 Country of Publication: USA

CODEN: ISEEEE

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: Auto ID helps Sweden maintain a single set of military equipment in warehouses for both peacetime training and wartime use. A Unisys 2200 mainframe host computer that holds a Delta inventory control software package tracks **storage** activities in Arboga in Sweden and numerous regional sites via a network of terminals at each site. Arboga central management maintains the account, economy, and computer support. All take-out and receiving in warehouses around the country are recorded by **scanning bar code** labels with Intermec Trakker 9440 radio frequency data communication **handheld** terminals that interface with the Delta

program on Unisys. There are some 1100 terminals in operation throughout the country. Automated data collection has been adopted in all activities in the Spare Parts Warehouse. (0 Refs)

Subfile: D

Descriptors: bar codes; military systems; stock control; warehouse automation

Identifiers: Swedish defense; inventory strategy; auto ID; military equipment; peacetime training; wartime use; Unisys 2200 mainframe host computer; Delta inventory control software package; **storage** activities; network; bar code labels; Intermec Trakker 9440 radio frequency data communication **handheld** terminals; automated data collection; Spare Parts Warehouse

Class Codes: D2040 (Emergency services); D2140 (Marketing, retailing and distribution)

15/5/3 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

01847079 INSPEC Abstract Number: C82019082

Title: Coding systems for handling items of material, packages, etc. State of the art and tendencies

Author(s): Bundgaard, O.

Journal: Maschinenmarkt vol.87, no.80 p.1643-6

Publication Date: 9 Oct. 1981 Country of Publication: West Germany

CODEN: MAMKAK ISSN: 0025-4509

Language: German Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: Deals with systems for coding and decoding individual articles or packages before they are sorted for dispatch, **storage** or the like. It distinguishes three types of system: manual coding, in which the operator reads the information on the package and either sorts it himself or passes on the relevant information by keyboard or voice-recognition technology; semiautomatic decoding in which an operator uses a **hand - held** type-recognition reader or a bar-chart reader; and fully automatic decoding by laser **scanning** of the **bar - code**, by use of a fixed-beam code reader, by optical (camera) bar-code reading, and by camera recognition of codes other than bar-codes. For each system the author lists advantages and disadvantages, handling capacities (articles per hour), expected error rates and initial equipment costs. The market, at present dominated by the USA, is expected to exceed 20*10/sup 6/ DM in 1981, and to grow by 50% per year for the next five years. (0 Refs)

Subfile: C

Descriptors: distributive data processing; laser beam applications

Identifiers: optical bar-code reading; coding; decoding; dispatch; manual coding; keyboard; voice-recognition; semiautomatic decoding; **hand - held** type-recognition reader; bar-chart reader; fully automatic decoding; laser scanning; fixed-beam code reader; camera recognition; handling capacities

Class Codes: C7160 (Manufacturing and industry)

15/5/4 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

01684770 INSPEC Abstract Number: C81017410

Title: Handheld scanner makes reading bar codes easy and inexpensive

Author(s): Uebbing, J.J.; Lubin, D.L.; Weaver, E.G., Jr.

Author Affiliation: Univ. of Notre Dame, Notre Dame, IN, USA

Journal: Hewlett-Packard Journal vol.32, no.1 p.3-10
Publication Date: Jan. 1981 Country of Publication: USA
CODEN: HPJOAX ISSN: 0018-1153
Language: English Document Type: Journal Paper (JP)
Treatment: Practical (P)

Abstract: Discusses Hewlett-Packard's new HEDS-3000 Digital Bar Code Wand. It is a reliable interface between printed bar codes and a digital decoding system. When the **handheld** wand is used to **scan** the **bar code**, it **converts** the light reflected from the printed bars and spaces into TTL or CMOS-compatible logic levels. The resulting digital signal is available for input to a digital decoding system. (1 Refs)

Subfile: C

Descriptors: character recognition equipment

Identifiers: Hewlett-Packard; HEDS-3000; Digital Bar Code Wand; printed bar codes; **handheld** wand

Class Codes: C5530 (Pattern recognition equipment)

15/5/5 (Item 1 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs
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2149041 H.W. WILSON RECORD NUMBER: BAST96055463

The really big Olympics event: logistics

Knill, Bernie;

Material Handling Engineering v. 51 (Aug. 1996) p. 58-9

DOCUMENT TYPE: Feature Article ISSN: 0025-5262 LANGUAGE: English

RECORD STATUS: Corrected or revised record

ABSTRACT: Solutions to the logistics problems facing the 1996 Olympic Games in Atlanta, Georgia, are described. All American athletes at the games will be carrying an alphanumeric pager provided by Motorola, and these pagers will support games management, transportation, and security. The needs of over 70,000 people involved in organizing and staging the games will be met by 10,000 **portable** and mobile radios, 6,000 pagers, 1,500 cellular phones, and 1,500 computer modems. Solutions to the **storage** and retrieval of auxiliary sports products and personal products are described, including an easy to operate **bar code scanning** system that will help outfit staff members at the games.

DESCRIPTORS: Olympic games; Business logistics;
?

18/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

5850176 INSPEC Abstract Number: C9804-7140-141

Title: Implementation of scannable encounter forms for large-scale collection of ambulatory care data

Author(s): Fenton, S.

Author Affiliation: Veterans Health Adm., Washington, DC, USA

Conference Title: Proceedings. Toward an Electronic Patient Record '96. Twelfth International Symposium on the Creation of Electronic Health Record System and Global Conference on Patient Cards Part vol.2 p.308-11 vol.2

Publisher: Medical Records Inst, Newton, MA, USA

Publication Date: 1996 Country of Publication: USA 2 vol. (646+688)

pp.

ISBN: 0 9640667 7 7 Material Identity Number: XX98-00258

Conference Title: Proceedings of 12th International Symposium on the Creation of Electronic Health Record Systems and Global Congress on Patient Cards

Conference Date: 13-18 May 1996 Conference Location: San Diego, CA, USA

Language: English

Subfile: C

Copyright 1998, IEE

...Abstract: data entry, so VHA has investigated a number of technological alternatives, including clinical workstations, mobile pen based computers, bar code readers and scanning of encounter forms. An analysis of these different options showed that scannable encounter forms are...

18/3,K/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

5363419 INSPEC Abstract Number: C9610-7140-147

Title: Implementation of scannable encounter forms for large-scale collection of ambulatory care data

Author(s): Fenton, S.

Author Affiliation: Veterans Health Adm. Headquarters, Washington, DC, USA

Conference Title: Proceedings. Toward an Electronic Patient Record '96. Twelfth International Symposium on the Creation of Electronic Health Record System and Global Conference on Patient Cards Part vol.2 p.308-11 vol.2

Editor(s): Waegemann, C.P.

Publisher: Med. Records Inst, Newton, MA, USA

Publication Date: 1996 Country of Publication: USA 2 vol. (646+688)

pp.

ISBN: 0 9640667 7 7 Material Identity Number: XX96-02344

Conference Title: Proceedings of Toward An Electronic Patient Record '96

Conference Date: 13-18 May 1996 Conference Location: San Diego, CA, USA

Language: English

Subfile: C

Copyright 1996, IEE

...Abstract: data entry, so VHA has investigated a number of technological alternatives, including clinical workstations, mobile pen based computers, bar code readers and scanning of encounter forms.

An analysis of these different options showed that scannable encounter forms are...

18/3,K/3 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

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04301185

Title: Who's afraid of electronics? (computerized data collection)

Author(s): Snyder, M.

Journal: Business Forms, Labels & Systems vol.30, no.16 p.52, 54, 56

Publication Date: 20 Aug. 1992 Country of Publication: USA

CODEN: BFLSEP ISSN: 0745-3914

Language: English

Subfile: D

...Abstract: businesses collect information? Today, some of the more common collection tools include direct input (keyboard), **bar codes**, **scanning** and imaging. These computerized data collection methods encroach on forms use and eliminate data entry...

... although limited and a niche market. Other important technologies include laptop computers, larger computer networks, **pen**-based computing and voice recognition. Each of these has the potential to replace forms as ...

...Identifiers: **pen**-based computing

18/3,K/4 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

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02732954 INSPEC Abstract Number: C86048129

Title: Bar-code scanners form factory networks

Author(s): Livermore, T.

Author Affiliation: Caere Corp., Los Gatos, CA, USA

Journal: Mini-Micro Systems vol.18, no.13 p.73-7

Publication Date: Oct. 1985 Country of Publication: USA

CODEN: MISYDF ISSN: 0364-9342

Language: English

Subfile: C

...Abstract: data from the factory floor more efficiently and cost-effectively than is possible with conventional **bar - code** technology. The PCScan-Net and **Scan**-Net systems developed by Caere Corp. can be used in making products ranging from computer...

... networking line into an RS232 data-communications line, allowing operators to enter data from multiple **bar - code** scanners to the PC: **Scan**-Net connects a multiplexer which uses a programmable protocol to a two-wire, twisted-pair...

... for data transmission. PCScan-Net and Scan-Net are compatible with both laser and light- **pen** bar-code readers.

18/3,K/5 (Item 5 from file: 2)

DIALOG(R)File 2:INSPEC

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01211788 INSPEC Abstract Number: C78017737

Title: Human limitations in using a portable light pen device for manually scanning bar code patterns

Author(s): Israelski, E.W.; Gruenz, O.O., Jr.

Author Affiliation: American Telephone & Telegraph Co., Basking Ridge, NJ, USA

Conference Title: Proceedings of the Human Factors Society 21st Annual Meeting p.221-5

Editor(s): Neal, A.S.; Palasek, R.F.

Publisher: Human Factors Society, Santa Monica, CA, USA

Publication Date: 1977 **Country of Publication:** USA xi+568 pp.

Conference Date: 17-20 Oct. 1977 **Conference Location:** San Francisco, CA, USA

Language: English

Subfile: C

Title: Human limitations in using a portable light pen device for manually scanning bar code patterns

...Descriptors: light pens ;

Identifiers: portable light pen device...

18/3,K/6 (Item 6 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

01172774 INSPEC Abstract Number: C78009431

Title: Mechanized information transfer in the medical environment

Author(s): Rubin, M.; Knott, L.B.; Sutton, R.M.; Holland, D.W.

Author Affiliation: Georgetown Univ. Medical Center, Washington, DC, USA

Conference Title: The First Annual Symposium on Computer Application in Medical Care p.8-16

Publisher: IEEE, New York, NY, USA

Publication Date: 1977 **Country of Publication:** USA 373 pp.

Conference Sponsor: IEEE; Medical Coll. Va., George Washington Univ. Medical Center

Conference Date: 3-5 Oct. 1977 **Conference Location:** Washington, DC, USA

Language: English

Subfile: C

...Abstract: sensitive gummed label which may be affixed to documents, drugs, patient sample or service. Light pen scanning of the bar code identity provides a facile entry of bar coded patient, document, service, sample or result information...

...Identifiers: light pen

18/3,K/7 (Item 1 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

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2170184 H.W. WILSON RECORD NUMBER: BAST00030743

Warehousing excellence--Sanford

Modern Materials Handling v. 55 no4 (Apr. 2000) p. 73

DOCUMENT TYPE: Feature Article **ISSN:** 0026-8038

...ABSTRACT: award for warehousing excellence in the year 2000, is

presented. Sanford's distribution center for **writing** instruments at Shelbyville, Tennessee, replaces 3 older warehouses. Productivity has increased 65 percent over the former warehouses. Materials handling systems include warehouse management software, high-speed sortation, **bar code scanning**, RF data communication terminals, pick-to-light systems, and in-line scales. The facility has...

18/3,K/8 (Item 1 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

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09339786

Forbes subscribers to get web-linking scanners

US: FORBES INVESTS IN SCANNERS

Los Angeles Times (AUD) 05 Aug 2000 Online

Language: ENGLISH

... 000 subscribers will receive either a CueCat scanner made by DigitalConvergence.com, or a scanning **pen** developed by AT Cross, with the 11 September 2000 'Best of the Web' issue. Readers, which will have to have access to an Internet-linked personal computer, will **scan** the special **bar codes** printed in articles and adverts to link directly to the relevant web addresses. *...

18/3,K/9 (Item 2 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

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06155195

Bar codes help Mandarin Hotel speed up wage payment

SINGAPORE: BAR CODES SYSTEM HELPS MANDARIN HOTEL

Computerworld (XCK) 11 May 1995 P.17

Language: ENGLISH

... workers are issue a temporary staff pass when they handed in their identity cards. A **bar code** reader will **scan** their identity cards. The staff will swipe this card at the uniform station to collect...

...the scanner is the flatbed type seen in supermarkets while the other one is the **pen** scanner.

18/3,K/10 (Item 3 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

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04826442

New line in home shopping

US - US ORDER OFFERS SCANFONE

Independent On Sunday (TIS) 12 January 1992 psa8

... shopping. The ScanFone equipment is basically an enhanced telephone which has a display panel, a '**pen**' which **scans bar codes** and a magnetic stripe card reader. Customers are provided with bar-coded catalogues of products...

18/3,K/11 (Item 1 from file: 474)

DIALOG(R)File 474:New York Times Abs
(c) 2005 The New York Times. All rts. reserv.

07844632 NYT Sequence Number: 081671001221

A NEW BALLPOINT FROM CROSS THAT CAN READ AS WELL AS WRITE

Austen, Ian

New York Times, Col. 3, Pg. 3, Sec. G

Thursday December 21 2000

A NEW BALLPOINT FROM CROSS THAT CAN READ AS WELL AS WRITE

ABSTRACT:

New ballpoint **pen** from A T Cross reads and stores bar codes as well as **writing** conventionally; photo (S)

DESCRIPTORS: **Pens** and Pencils; **Scanning** Devices; **Bar** Codes

18/3,K/12 (Item 2 from file: 474)

DIALOG(R)File 474:New York Times Abs

(c) 2005 The New York Times. All rts. reserv.

07612410 NYT Sequence Number: 682055980702

NEWS WATCH: WITH A BALL-POINT SCANNER, CUPBOARDS NEED NEVER BE BARE

Berger, Shoshana

New York Times, Col. 4, Pg. 3, Sec. G

Thursday July 2 1998

ABSTRACT:

Symbol Technologies introduces the Infopen, ball-point **pen** that is also portable **bar - code** scanner; users can **scan bar - codes** of products they need, upload the data into personal computer and place on-line order...

DESCRIPTORS: Computers and Information Systems; **Bar** Codes ; **Scanning** Devices; **Pens** and Pencils

?

File 16:Gale Group PROMT(R) 1990-2005/Jun 02
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 File 148:Gale Group Trade & Industry DB 1976-2005/Jun 02
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 File 636:Gale Group Newsletter DB(TM) 1987-2005/Jun 02
 (c) 2005 The Gale Group
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 (c) 2005 McGraw-Hill Co. Inc
 File 634:San Jose Mercury Jun 1985-2005/Jun 02
 (c) 2005 San Jose Mercury News
 File 810:Business Wire 1986-1999/Feb 28
 (c) 1999 Business Wire
 File 813:PR Newswire 1987-1999/Apr 30
 (c) 1999 PR Newswire Association Inc
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 (c) 2005 The Gale group
 File 635:Business Dateline(R) 1985-2005/Jun 03
 (c) 2005 ProQuest Info&Learning
 File 570:Gale Group MARS(R) 1984-2005/Jun 02
 (c) 2005 The Gale Group
 File 477:Irish Times 1999-2005/Jun 03
 (c) 2005 Irish Times
 File 710:Times/Sun.Times(London) Jun 1988-2005/Jun 02
 (c) 2005 Times Newspapers
 File 711:Independent(London) Sep 1988-2005/Jun 02
 (c) 2005 Newspaper Publ. PLC
 File 756:Daily/Sunday Telegraph 2000-2005/Jun 03
 (c) 2005 Telegraph Group
 File 757:Mirror Publications/Independent Newspapers 2000-2005/Jun 03
 (c) 2005
 File 387:The Denver Post 1994-2005/Jun 02
 (c) 2005 Denver Post
 File 471:New York Times Fulltext 19802005/Jun 03
 (c) 2005 The New York Times
 File 492:Arizona Repub/Phoenix Gaz 19862002/Jan 06
 (c) 2002 Phoenix Newspapers
 File 494:St LouisPost-Dispatch 1988-2005/Jun 02
 (c) 2005 St Louis Post-Dispatch
 File 498:Detroit Free Press 1987-2005/Jun 02
 (c) 2005 Detroit Free Press. Inc.
 File 631:Boston Globe 1980-2005/Jun 03

(c) 2005 Boston Globe
 File 633:Phil.Inquirer 1983-2005/May 31
 (c) 2005 Philadelphia Newspapers Inc
 File 638:Newsday/New York Newsday 1987-2005/Jun 02
 (c) 2005 Newsday Inc.
 File 640:San Francisco Chronicle 1988-2005/Jun 03
 (c) 2005 Chronicle Publ. Co.
 File 641:Rocky Mountain News Jun 1989-2005/Jun 02
 (c) 2005 Scripps Howard News
 File 702:Miami Herald 1983-2005/May 27
 (c) 2005 The Miami Herald Publishing Co.
 File 703:USA Today 1989-2005/Jun 02
 (c) 2005 USA Today
 File 704:(Portland)The Oregonian 1989-2005/Jun 01
 (c) 2005 The Oregonian
 File 713:Atlanta J/Const. 1989-2005/Jun 02
 (c) 2005 Atlanta Newspapers
 File 714:(Baltimore) The Sun 1990-2005/Jun 03
 (c) 2005 Baltimore Sun
 File 715:Christian Sci.Mon. 1989-2005/Jun 03
 (c) 2005 Christian Science Monitor
 File 725:(Cleveland)Plain Dealer Aug 1991-2005/Jun 01
 (c) 2005 The Plain Dealer
 File 735:St. Petersburg Times 1989- 2005/Jun 01
 (c) 2005 St. Petersburg Times

Set	Items	Description
S1	879290	(HANDHELD OR HAND()HELD OR PORTABLE? OR PDA OR PALM()PILOT? OR PALM OR WIRELESS) (5N) (DEVICE? OR APPARATUS OR APPLIANC? OR COMPONENT? OR EQUIPMENT)
S2	21844	(SCAN OR SCANS OR SCANNING) (5N) (BAR OR PRODUCT) () (CODE OR - CODES OR CODING?)
S3	2201159	REMOV? (5N) (MEMORY OR RAM OR DISC OR DISKETTE?) OR STORAGE
S4	3307	S1(5N) (WRITE OR WRITES OR WRITING OR PEN OR PENS)
S5	1399	(CONVERT? OR CONVERS?) (5N) (UPC OR UNIVERSAL() PRODUCT() CODE? ? OR COMPUTER() READABLE? OR (BAR OR PRODUCT) () (CODE OR CODES OR CODING?))
S6	157	AU=(SIEGEL, B? OR SIEGEL B? OR MARCHESELLO, T? OR MARCHESE- LLO T?)
S7	3120	S1(S)S2
S8	47	S7(S)S3
S9	23	S8 NOT PY>2000
S10	18	RD (unique items)
S11	8	S8(S) (WRITE OR WRITES OR WRITING OR PEN OR PENS)
S12	5	S11 NOT S10
S13	4	RD (unique items)
S14	0	S6(S)S1
?		

10/3,K/1 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

07340445 Supplier Number: 61952527 (USE FORMAT 7 FOR FULLTEXT)
FEDEX GROUND GETS A HAND. (The company will equip its independent delivery contractors with proprietary handheld devices built by Symbol Technologies Inc.)
Ehrenmann, Gayle
InternetWeek, p50
May 1, 2000
Language: English Record Type: Fulltext
Document Type: Tabloid; Trade
Word Count: 510

... the company will equip 8,500 of its independent delivery contractors this spring with proprietary **handheld devices** built by Symbol Technologies Inc. The 20-ounce Star II devices, which include an integrated bar code scanner and keypad, are used by the delivery drivers for **scanning** package-tracking **bar codes** and inputting important delivery information, such as the name of the person who accepted delivery ...

...half of which is RAM and half of which is Flash memory used for data **storage** . The handhelds support both MS-DOS and Windows CE, but FedEx Ground has chosen to...

10/3,K/2 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

07202104 SUPPLIER NUMBER: 15202964 (USE FORMAT 7 OR 9 FOR FULL TEXT)
ECR: waiting to move center stage? (efficient customer response) (Food Industry Productivity Conference and Expo, 1993) (includes article on information systems) (Operations)
Casper, Carol
ID: The Voice of Foodservice Distribution, v30, n2, p83(3)
Feb, 1994
LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1832 LINE COUNT: 00152

... device now being incorporated in many portable computers. Both are looking at options to permit **bar - code scanning** input as well.

10/3,K/3 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

05389915 SUPPLIER NUMBER: 11510196
United Parcel Service gets a special delivery. (computer systems integration) (includes directory of companies mentioned in article)
Livingston, David
Systems Integration, v24, n11, p54(4)
Nov, 1991
ISSN: 1044-4262 LANGUAGE: ENGLISH RECORD TYPE: ABSTRACT

...ABSTRACT: called Delivery Information Automated Lookup System, serves as the central data base for mainframe information **storage** . UPS transmits

its information among 300 token-ring local area networks over Systems Network Architecture...

10/3,K/4 (Item 3 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

04886626 SUPPLIER NUMBER: 09313816 (USE FORMAT 7 OR 9 FOR FULL TEXT)
An automatic success at Scan-Tech 90. (automatic identification technology at industrial show)
Material Handling Engineering, v45, n12, p72(1)
Dec, 1990
ISSN: 0025-5262 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 2117 LINE COUNT: 00167

... is a full-function system that simplifies warehouse operations, increases productivity, improves the use of **storage** space and maximizes inventory control. Teklogix Inc. The vehicle-mounted, radio-linked terminal Model 8025...

10/3,K/5 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

02254395 SUPPLIER NUMBER: 53363092 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Mobile and PDA Expo - Roundup 12/07/98.
Newsbytes, NA
Dec 7, 1998
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 855 LINE COUNT: 00073

... peripherals for connected organizers and software development. Tiny keyboards, miniature computers, hand-held PCs (HPCs), **bar coding**, **scanning** and pen input **devices**, **wireless** and infrared data transfer peripherals, and high-capacity **storage** products were among the more than 100 exhibits.

Here is a roundup of news from...

10/3,K/6 (Item 2 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

02070908 SUPPLIER NUMBER: 19414033 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Powering better customer service. (Boston Edison implements mobile computing solution) (Company Operations)
Communications News, v34, n5, p50(2)
May, 1997
ISSN: 0010-3632 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 985 LINE COUNT: 00087

...ABSTRACT: information. The customer service program outfits field service employees with Norand's PEN+KEY 6600 **portable**, **hand - held** computing **devices** that communicate over a wide-area radio frequency network. The computers contain built-in wireless...

...field and host. Boston Edison expanded its solution with the inclusion of solid state mass **storage**, global positioning system capabilities and

bar - code scanning . The devices eliminate bottlenecks associated with a manual customer service response process by reducing paperwork...

10/3,K/7 (Item 1 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

04579020 Supplier Number: 59597221 (USE FORMAT 7 FOR FULLTEXT)

Psion and Symbian make the wireless enterprise a reality with introduction of mobile application access solution from Citrix; Announces support for Citrix ICA across its range of mobile computing devices.

M2 Presswire, pNA

Feb 24, 2000

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1507

... found at www.symbian.com

About the Psion netBook

Psion's netBook is the first **handheld** computing device to ... range includes a number of data capture and communication features, supporting wireless RF, GSM and **bar code scanning** to enable real-time access to back-office applications and also wireless data capture. The... has a slot for either a compact flash card or disk drives for large data **storage** requirements, such as IBM's 340 megabyte (MB) microdrive, the worlds smallest hard disk drive...

10/3,K/8 (Item 2 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

04470437 Supplier Number: 56981755 (USE FORMAT 7 FOR FULLTEXT)

PSION ENTERPRISE COMPUTING: Psion extends the reach of of e-business strategies beyond the enterprise.

M2 Presswire, pNA

Oct 28, 1999

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1006

... to (URL) www.oracle.com/

About the Psion netBook

Psion's netBook is the first **handheld** computing ldevice to fully support Sun Microsystem's Enterprise Java 1.1.4 and ...range includes a number of data capture and communication features, supporting wireless RF, GSM and **bar code scanning** to enable real-time access to back-office applications and also wireless data capture. The a compact flash card or disk drives for large data **storage** requirements, such as IBM's 340 megabyte (MB) microdrive, the worlds smallest hard disk drive...

10/3,K/9 (Item 3 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

03384753 Supplier Number: 46963584 (USE FORMAT 7 FOR FULLTEXT)

-SYMBOL TECHNOLOGIES: Symbol receives major order to upgrade Denmark's postal service

M2 Presswire, pN/A
Dec 11, 1996
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 463

... PDT 1000 is suitable for a variety of applications where bar code data capture and **storage** are required. The unit allows users to **scan** postal **bar codes** through plastic and other protective coverings with no degradation in performance. Symbol Technologies is the...

...4.0 million scanners and hand-held computers installed. The company designs, manufactures and markets **bar code scanning equipment**, application-specific **handheld** computers and radio frequency data communications products and systems that are used as strategic building...

10/3,K/10 (Item 1 from file: 9)
DIALOG(R)File 9:Business & Industry(R)
(c) 2005 The Gale Group. All rts. reserv.

02140228 Supplier Number: 25688961 (USE FORMAT 7 OR 9 FOR FULLTEXT)
FEDEX GROUND GETS A HAND
(FedEx Ground will equip 8,500 independent delivery contractors with Star II proprietary handheld devices for scanning package-tracking bar codes and inputting delivery information)
InternetWeek, p 50
May 01, 2000
DOCUMENT TYPE: Journal ISSN: 0746-8121 (United States)
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 493

TEXT:

...the company will equip 8,500 of its independent delivery contractors this spring with proprietary **handheld devices** built by Symbol Technologies Inc. The 20-ounce Star II devices, which include an integrated bar code scanner and keypad, are used by the delivery drivers for **scanning** package-tracking **bar codes** and inputting important delivery information, such as the name of the person who accepted delivery...

...half of which is RAM and half of which is Flash memory used for data **storage**. The handhelds support both MS-DOS and Windows CE, but FedEx Ground has chosen to...

10/3,K/11 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2005 ProQuest Info&Learning. All rts. reserv.

01171064 98-20459
Bar coding keeps Navy stores shipshape
Anonymous
Purchasing & Supply Management PP: 26-27 Jan 1996
ISSN: 0309-7242 JRNL CODE: PSU
WORD COUNT: 1101

...TEXT: makes extensive use of Intermec's Trakker hand-held intelligent data communication terminals.

To speed **storage** /retrieval of some 1200 issues and 1000 receipts each

day, information is downloaded from WITS to these **portable devices** -- programmed in-house using Intermec's PCIRL language -- with confirmation of each transaction carried out by **scanning** the appropriate **bar code** . Portable **bar code** label printers are linked to the Trakkers for production of item bar code labels on...

10/3,K/12 (Item 2 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2005 ProQuest Info&Learning. All rts. reserv.

00154122 81-23999
Automation: The Price Is Right
Harrington, Lisa H.
Traffic Management v20n9 PP: 63-69 Sep 1981
ISSN: 0041-0691 JRNL CODE: TM

ABSTRACT: Recent introductions of **bar code scanning** technology allow businesses to automate such functions as order filling, checking, routing, and inventory record...

...for a vehicle operator to communicate directly with a host computer on matters of inventory, **storage** , order picking and verification, and piece location. Three basic types of scanning equipment are used...

...corrugated case symbols-laser flying spot scanners, fluorescent light-type units with fixed detectors, and **hand - held** scanners. Container-scanning **equipment** helps a company to speed up inbound and outbound shipments, maintain up-to-date inventories...

10/3,K/13 (Item 1 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2005 The Dialog Corp. All rts. reserv.

09750745 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Psion PLC - Re Alliance
REGULATORY NEWS SERVICE
February 24, 2000
JOURNAL CODE: WRNS LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 1482

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... has a slot for either a compact flash card or disk drives for large data **storage** requirements, such as IBM's 340 megabyte (MB) microdrive, the worlds smallest hard disk drive...

10/3,K/14 (Item 2 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2005 The Dialog Corp. All rts. reserv.

09744725 (USE FORMAT 7 OR 9 FOR FULLTEXT)
PSION: Psion and Symbian make the wireless enterprise a reality with introduction of mobile application access solution from Citrix; Announces support for Citrix ICA across its range of mobile computing devices
M2 PRESSWIRE
February 24, 2000

JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 1437

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... has a slot for either a compact flash card or disk drives for large data **storage** requirements, such as IBM's 340 megabyte (MB) microdrive, the worlds smallest hard disk drive...

10/3,K/15 (Item 3 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2005 The Dialog Corp. All rts. reserv.

05863925

Exclusive: Hardy wireless touch screen from Data General

SECTION TITLE: News
Andy Favell, PC Week UK
NEWSWIRE (VNU)
May 18, 1999

JOURNAL CODE: WNEW LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 396

... the Microsoft terminal server between the client and application server. The fifth tier was the **storage** area network, with database servers sharing a pool of **storage** based on DG's subsidiary Clariion. Meanwhile DG will announce a corporate rebranding later this month. DG's world will now be purple. The Clariion **storage** business will now be brought closer into the DG fold, because it has become less important to maintain a semblance of independence, now that the OEM **storage** business to customers, such as HP, is in steep decline. For more stories see this...

10/3,K/16 (Item 4 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2005 The Dialog Corp. All rts. reserv.

03683824 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Mobile and PDA Expo - Roundup

NEWSBYTES
December 07, 1998

JOURNAL CODE: FNEW LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 742

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... coding, scanning and pen input devices, wireless and infrared data transfer peripherals, and high-capacity **storage** products were among the more than 100 exhibits.

Here is a roundup of news closed...

10/3,K/17 (Item 1 from file: 813)
DIALOG(R)File 813:PR Newswire
(c) 1999 PR Newswire Association Inc. All rts. reserv.

1135244

SFM072

Socket Communications, Inc. Reports Second Quarter Operating Results

DATE: August 4, 1997 16:00 EDT WORD COUNT: 1,233

Sylvia Keys

03-Jun-05 12:40 PM

... today, in a separate release, that in cooperation with Welch Allyn, a leading supplier of **bar code** wands and **bar code scanning** products, it has developed a **bar code** wand PC card which is designed to allow powerful H/PC computers to serve as data collection terminals for **bar code scanning** applications. The wand is powered from the computer through the PC card slot. **Bar code scanning** is used in a number of applications including inventory and production management, and H/PCs are ideal low cost **devices** for **portable** data capture as they provide **storage** capacity, programmability and connectivity to desktop systems. The company expects to begin shipping the product...

10/3,K/18 (Item 1 from file: 635)
DIALOG(R)File 635:Business Dateline(R)
(c) 2005 ProQuest Info&Learning. All rts. reserv.

0863339 98-23702

Virginia Storage expands to second location in Winchester area

Heerwagen, Peter

Quad-State Business Journal (Winchester, VA, US), V9 N1 p10

PUBL DATE: 971100

WORD COUNT: 1,244

DATELINE: Winchester, VA, US, South Atlantic

TEXT:

...Royal area.

Bar coding is part and parcel of any modern warehousing operation, and Virginia **Storage** has taken his to the next step. Employees use **handheld devices** to remotely **scan bar codes**, not only when merchandise comes in, but when a pallet is placed on a shelf. The person **scanning** can "zap" the **bar code** on the pallet and another bar code at the shelf space, and the data is...

?

13/3,K/1 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

10189857 Supplier Number: 94208346 (USE FORMAT 7 FOR FULLTEXT)
Eastman's warehouse goes wireless. (Systems Integration). (Eastman Chemical)
Roberts, Mike
Chemical Week, v164, n43, p23(1)
Oct 30, 2002
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 404

... the system at another seven or more sites next year, Hrivnak adds.
Eastman uses the **device** in conjunction with its **wireless** local area network (WLAN) and SAP IT system. The device reads **bar codes** and allows warehouse employees to **scan** in arriving shipments, and link that information via the WLAN to an SAP R/3 server to retrieve **storage** details. The device saves time and automates functions for employees who previously had to read shipping labels, **write** down the details, and then re-enter the information in a desktop computer to get **storage** details.

Eastman plans eventually to use the system for plant process data collection to generate...

13/3,K/2 (Item 1 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

04033734 Supplier Number: 53363092 (USE FORMAT 7 FOR FULLTEXT)
Mobile and PDA Expo - Roundup 12/07/98.
Newsbytes, pNA
Dec 7, 1998
Language: English Record Type: Fulltext
Document Type: Newswire; General Trade
Word Count: 819

... peripherals for connected organizers and software development. Tiny keyboards, miniature computers, hand-held PCs (HPCs), **bar coding**, **scanning** and **pen input devices**, **wireless** and infrared data transfer peripherals, and high-capacity **storage** products were among the more than 100 exhibits.

Here is a roundup of news from...

13/3,K/3 (Item 1 from file: 9)
DIALOG(R)File 9:Business & Industry(R)
(c) 2005 The Gale Group. All rts. reserv.

02871633 Supplier Number: 94208346 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Eastman's warehouse goes wireless. (Systems Integration).
(Eastman Chemical)
Chemical Week, v 164, n 43, p 23
October 30, 2002
DOCUMENT TYPE: Journal ISSN: 0009-272X (United States)
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 376

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...the system at another seven or more sites next year, Hrivnak adds.

Eastman uses the **device** in conjunction with its **wireless** local area network (WLAN) and SAP IT system. The device reads **bar codes** and allows warehouse employees to **scan** in arriving shipments, and link that information via the WLAN to an SAP R/3 server to retrieve **storage** details. The device saves time and automates functions for employees who previously had to read shipping labels, **write** down the details, and then re-enter the information in a desktop computer to get **storage** details. Eastman plans eventually to use the system for plant process data collection to generate...

13/3,K/4 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2005 ProQuest Info&Learning. All rts. reserv.

02483735 230755051

Eastman's warehouse goes wireless

Roberts, Mike

Chemical Week v164n43 PP: 23 Oct 30, 2002

ISSN: 0009-272X JRNL CODE: CEM

WORD COUNT: 384

...TEXT: the system at another seven or more sites next year, Hrivnak adds.

Eastman uses the **device** in conjunction with its **wireless** local area network (MAN) and SAP IT system. The device reads **bar codes** and allows warehouse employees to **scan** in arriving shipments, and link that information via the WLAN to an SAP R/3 server to retrieve **storage** details. The device saves time and automates functions for employees who previously had to read shipping labels, **write** down the details, and then re-enter the information in a desktop computer to get **storage** details.

Eastman plans eventually to use the system for plant process data collection to generate...